A Selected Bibliography of Publications by, and about, Lord Ernest Rutherford of Nelson

Nelson H. F. Beebe
University of Utah
Department of Mathematics, 110 LCB
155 S 1400 E RM 233
Salt Lake City, UT 84112-0090
USA

Tel: +1 801 581 5254
FAX: +1 801 581 4148

E-mail: beebe@math.utah.edu, beebe@acm.org,
beebe@computer.org (Internet)
WWW URL: http://www.math.utah.edu/~beebe/

19 February 2018
Version 2.44

Title word cross-reference

(100) [Tho84]. 1.0 − \mu [Gro89]. $1.50$ [Dav37]. 1/2 [Hei71]. 180° [EFKS96].
$23.00$ [Dys05]. $25.00$ [Dys05]. $4.75$ [Ble57]. 5 × 1 [Yuh92]. $7.00$ [Bat72].
+ [SSWB80a, Sad81]. $10$ [LMC97]. $12$ [RR95]. $14$ [RR95]. $16$ [RK95]. $32$
[RRKH94]. 4 [MDJF83, ZB74]. α [Mon66]. 0.18 [WVH+99]. 0.25 [TJRS03]. 0.47
[GRS+91]. 0.53 [GRS+91]. 0.75 [TJRS03]. 0.82 [WVH+99]. 1 [KKK+99]. 1 − x
[KKK+99, PAF+98, Win94]. 1.7 [WVD+96]. 1.8 [LFA+04]. 2
[CSN+00, DMV+96, IFSI94, Ish83, NJS+03, NFM+07, OaHNM98, LFA+04,
REJ86, Tho84, YKH+84]. 3
[Cat93, HGM+94, IFSI94, KKK+99, OaHNM98, RsdS+89, WZS+91]. 4
[WZS+91, YKH+84]. 5 [ESRDV84]. x [KKK+99, PAF+98, Win94]. α
[YKH+84]. α [Fea77, GM09, GF10, GR12, Hei68, LMC97, OaHNM98, Rut05a,
Rut05c, Rut05k, Rut05n, Rut05m, Rut06i, Rut06c, RH06a, RH06b, RH06b,
Rut06m, Rut06l, Rut06j, Rut07g, Rut07h, Rut07j, RG08d, RG08b, RG08a,
RG08e, Rut08c, Rut08d, Rut08f, RR08e, RG09b, RG09a, RR09b, RR09a,
Rut09f, RR09d, RG10, Rut10f, Rut10g, Rut11i, Rut11j, RN13, RR13a, RR14, Rut19b, Rut19e, Rut19f, Rut19g, Rut19h, RC21a, Ru21e, RC22, Rut23m, Rut23n, Rut23o, Rut24m, RC25, RC27, Rut27a, Rut27b, Rut27c, Rut27d, Rut27f, RWL31a, RWL31b, Rut31d, Rut31f, RLB33, RWLB33, RK34, Rut66b, Rut66a, Rut69a, Rut12, WR31, vdB07] \approx 2 [KSKF93]. \beta 

[Hei68, Mos12a, MR14, Rut05n, Rut11i, Rut11j, Rut12b, Rut12c, Rut12e, Rut12h, RR13f, Rut14k, RRR14, Rut14i, Rut14h, Rut66b, Rut12]. \text{c} [IOI^{+11}]. \text{csc}^4(\theta/2) [Ram75]. \gamma 

[Cha12, CK33, MM12, MM12, MR14, Rut04f, RB05c, Rut12b, Rut12c, Rut12h, RR13b, RdCENdCA13, RR13c, Rut14k, RdCENdCA14b, RRR14, RdCENdCA14a, Rut14i, Rut14g, Rut14h, Rut14f, Rut31d, RE31, Rut31c, RB32, Rut33i]. \text{k} [Bar85]. m [IOI^{+11}]. n [Wuy91]. \sqrt{3} \times \sqrt{3} [Yuh92]. Z [MDJF83].

- [OI^{+11}, Rut66b]. -Al [OaHNM98]. -Compounds [Adl97]. -GaAs [Wuy91]. - Graphite [ESRDV84]. -Particle [Fie77, RG08d, RR09b, Rut23m, Rut23o, RG09a]. -Particles [RG08a, WR31, GM09, Rut07g, RC25, RC27]. -plane [IOI^{+11}]. -Rays [Cha12, Rut10f, RE31, Rut66b, CK33, Rut27l, Rut27h, Rut33i]. -Si [YKH^{+84}]. -Strahlen [Rut06i, Rut31c]. -Teilchen [RG09b, Rut31c, vdB07]. -Teilchens [Rut07g, Rut08c, Rut08d, RG09a].

/Cu [LFA^{+04}]. /Fe [KSKF93]. /Si [NJS^{+03}].


20.00 [Bro86]. 20th [Meh73, Bre97]. 22 [Bad67, Bad85b, CCJ^{+34}]. 2nd [Rut33h].

4-vinylpyridine [HW92]. 40 [RRKH94]. 41 [Hwa83]. '45 [Ree06]. 4H
6H [KIS+89]. 6H-SiC [KIS+89]. 6th [LRdB+23].

7059 [DJBW83].

80th [SR37].

A. [Rut05]. Abbey [Ano37a, Ano37j]. ABC [Wen53]. Aberdeen [Ano20b]. ablation [KKK+99]. Ablenkbarkeit [RG02a]. Ablenkung [Rut03b]. above [Ano38b, vBD89]. absorbed [Rut03b, Rut03f]. absorbierbaren [Rut03b]. Absorption [Cha12, Rut97a, Rut06a]. Abstract [Ano09a, Bau73a, Eld85, Nor79, Rut96a, Tho84, HFD+99]. Absurd [Ano33a]. Academic [Rut34h]. Academician [Ano66a, Kap66b]. Academy [WH72]. Accelerator [DYF67, Wil74]. Accepts [Ano07]. Accurate [JBS12, OKR35b, SN05, SWZ+05]. Achieved [Ano22]. achievements [She17]. actinide [BSS88]. Actinium [Ano06, Bol06, Rut88, RWWW30, RWL31b, RB32, Rut88, RH06a, Rut06m, Rut07g, RR13b, Rut29]. Actino [Hol30]. Actino-uranium [Hol30]. Action [Nia98, Rut00a, Rut09f, Rut09c, Rut09d, RR08d, Rut10g]. Active [HS89, Rut04I, Rut05p, RG08a, Rut12f, Rut13i, MF11, Rut00g, Rut00b, Rut01c, Rut02b, RS02i, RB05b, Rut06a, RB06b, Rut13f, SBE08]. Activity [Ano08a, Bar06, MG12, RP07, Sod04, Rut00c, RS02i, Rut03c, Rut04c, Rut05k, Rut05b, RC19, Rut04, Rut07a, TMO+95]. Actuels [Rut05c]. Adam [Stu85]. Additional [Rut12c]. additionelle [Rut12c]. Additions [CDE+31a]. Address [Rut09i, Rut23p, Rut27e, Rut27j, Rut28a, Rut29]. Actino [Hol30, Cam79]. age [Sea88, Sie11]. Agricultural [Ano38b]. ahead [Fla17]. Aires [Pye78]. Akademische [Mos13b]. aker [Rut21d]. Aktinium [Rut07g]. AI [IFS194, OaHN98, PAF+98, PCK+05, TF89, TMJ+99, ZWJ+02]. Al-implanted [ZWJ+02]. Al/GaAs [TF89]. Alan [Dys05]. Albert [Kle10]. Alchemist [Ano19, Geo38]. Alchemy [Bad66, Cam14, Dav37, Rut37a, Rut37b, Rez38, Rut38b, RA45, Rut14, Dav37]. Alchimiste [Geo38]. alchemy [Rut38b]. al'fa [Rez24, Car98]. al'fa-chasticy [Rez24]. Alfred [Mon66]. AlGaAs [KG91]. AlGaN [WYV+99]. alhimija [Rez38]. alkali [STB+01]. alkaline [HS39]. alkémia [RA45]. alkyl [NOH+10]. Allen [Bur64]. Allibone
[Sei86, Stu85, Sen87, Tre75a]. **Alloy** [OaHN98, TJRS03]. **alloys** [BBR80].

**AlN** [LCL+04]. **Alpha** [Ano80a, Ano22, Mar61, Ano00a, Nia98, OH64, Roe95, Rut06k, Rut08a, RW16, Rut23k, RC24a, Rut24j, Rut26b, Rut26c, Rut26d, Rut26e, RWWW30, Tre76b, Wen53, Car98, Fea79, Lec50, Rez24, Rut92, RR09c, Rut12a, Rut16d, Tre74b, Tre74b]. **alpha-particle** [Fea79].

**Alpha-Rays** [RWWW30]. **Alpha-Teilchen** [Tre74b]. **Alpha-Teilchen** [Tre74b].

**Also** [Ano37j].

**alternative** [Lon03].

**alumina** [GR89]. **aluminized** [BP93].

**Aluminum** [Bau73a, And90, Bau73b, HV84, Ser+01]. **alumnae** [Mor84]. **Alumni** [RSWE27].

**Amateur** [Har01].

**American** [WH72, Bad05, Gri09, Lav14, Sla13]. **among** [Gri09, Wil83b]. **amorphous** [ATS86, REJ86]. **Amount** [Rut03a]. **Amplitude** [Mar72, Rut16e].

**Analogy** [Gre07, Lor88, SC13]. **Analysen** [MMKS+80]. **Analyses** [Mon66, Sen87, GR89, TGDS99, Wil83b].

**Analysis** [And90, Bra61, FL+89, Hwa82, HHK87, HLB+09, MD69, MB90, RWWW30, RWL31a, RWL31b, RLBB33, RWLB33, TGDS99, WVCW76, BJW97, BCM13, BP93, Bra98, CGL+94, Cat93, CCR+03, DMV+96, HV84, HHAMS93, KLL+90, KO+M94, LHNG14, LGF+99, Man82, MBS+04, MMKS+80, Par96, Phi83, PMCF+06, RRM+13, Reu81, RRI+13, SHAI09, Sha87b, SN05, STB+01, Sin93, Wuy91, ZWJ+02, Hwa83, RR13b, RR13e]. **analytical** [WM88].

**anatomy** [Sie11].

**Ancestry** [Ano06]. **Anchor** [Opp64]. **Andrade** [Aro65b, Opp64]. **Angles** [GM13].

**Anomalous** [Rut19h, Rut10a]. **Antecedents** [Fra05]. **Anticipating** [Gus12]. **Anxieté** [dB70]. **Apparatus** [BR16, Ear66, LEM65, Mar61, SBE086, Ter38, Wil74, Mar61]. **appeal** [Rut34a]. **Appell** [Hwa83].

**Application** [CLZ99, KTS84, DJA+04, DvBV87, Rut36a]. **Applications** [Her84, Moo78, Rut96b, Rut97b, CRC12, RRM+13, RC12a, Rut32a].

**Applied** [Wer23, Ano23b]. **applying** [FNT+09, IFIS94]. **appreciation** [Har01].

**Approximation** [Dem03]. **April** [LRdB+23]. **APS** [Ano10].

**Arbeit** [Rut05]. **Arbeiten** [Hou30]. **arc** [Rut36a]. **archives** [Car98].

**archivi** [Car98]. **argon** [BV88, GR89, SKu89]. **argon-bombarded** [BVI88].

**arranged** [NP38, NP40]. **Arthur** [dR92, Coh88, Coh91, Coh89, Fos49]. **Artificial** [GLR06, GLR12, GT95, Rut22a, Rut22b, Rut22e, RC24b, RC24k, RC29, Rez25, RC21b, Rut24m, Rut33h, Rez23]. **Arts** [Ano18a, WH72]. **Ascent** [Bro73a]. **Aspect** [Ell60]. **Aspects** [Rut07f, Rut27g, Bur13a].
Assessment [Mor75]. Assistance [Rut34h]. Assistant [Kay63]. Association [Rut09e, Rut23p, Ano20a, Ano23b, Ano33b, Ano33c, RSWE27]. Aston [Dow08]. Astrophysics [Rig79]. asymmetries [CBZ+12]. Atmosphère [RA02a]. Atmosphere [RA02b, RCW+26, RA02a, Rut02a, Rut26i, Rut26j, Rut26k, Rut26l]. Atom [dCA56, dCA58, Ano08a, Ano15, Ano23b, Ano32a, Ano32b, Ano32c, Ano33a, Ano33b, Ano33d, Ano37i, Ano60, Ano09a, Bir57, Ble57, BM66, Fut13, Gar81, Gea82, Her72, Hug90, Kae36, Kra11, KH23, Lau37, Men66, Nia98, Pod10b, RN04, Rut09b, Rut09c, Rut09g, Rut09h, Rut11j, Rut13h, Rut14b, Rut14c, Rut24i, Rut34i, Sch13, Sil71, Sno58, Stu78, Tho08a, Tho08b, Til96, TGMR74, Vil05, Wer23, AH13, AK15, dCENdCA64, Ano37d, Bre83, Bro73b, Cat04, Fei11, Gar62, HRM79, HA84, Hei68, Hei81, Hei67, Her77, How58, McK62, Moc74, Pol60, Rez21, Rom97, Row55, Rut11i, Rut14e, Rut24d, Rut27i, Rut33f, Rut12, She17, Shi72, Sod20, Sod22, Sod04, Tre77b, dCAH64, Rut66c, Sei86, Stu85, Ano65b, Dys05, Opp64, Sen87]. Atom [Tre76a]. Atom-Model [Wer23]. Atom-Powered [Ano33a]. Atom-Smasher [Ano37i, Lau37]. Atom-Theory [Rut09b, Rut09c]. atom [Rez21]. Atomic [Ano06, Ano17, Boh63, Bur18, Dar56b, F.33, Gam29a, Jen11, Kow53, Kra12, Mon66, Mos14a, OaHNM98, Pei97b, PBFt83, Ree06, LFA+04, Rus56a, Rut09k, Rut19a, Rut23a, Rut23b, Rut23c, Rut23d, Rut23e, Rut23f, Rut23g, Rut23h, Rut23i, Rut23j, Rut25a, Rut25g, Rut26f, Rut27a, Rut27b, Rut27c, Rut27d, RAC+29, Rut30b, Rut30c, Rut30d, Rut32a, RCE+32, Rut33a, Rut35d, Rut37g, Rut70, Rutxx, Sie11, Sod49, Tre75c, Ano23b, Bai13, Boh87, Cat12, CK33, CCJ+34, Dar56a, Gam29a, Gam29b, Ha38, Hou30, IFS94, LHNG14, Pae15b, Par96, Pol60, Rec15a, Rez29, Rut25f, RC25, Rut26b, Rut26c, Rut26d, Rut26e, Rut33i, Rut33j, Rut36f, Rut36h, Sod13, Tab07, Mot63, Rez28, Rut09b, Rut09c]. atomique [Mon66]. atomiques [CCJ+34]. atomism [Rut09d]. Atomistik [Rut09d]. Atomization [ERM95]. Atomkerns [Gam28]. atomkutatas [RA45]. Atommodell [Pol60]. atomnogo [Rez29, Rez32]. Atomnye [Rez28]. Atomphysis [Har38]. Atoms [Ano32b, Cho01, Elf14, Pol60, Rut02f, Rut14a, Rut15i, Rut16b, Rut19a, Rut19e, Rut19f, Rut19g, Rut20a, Rut20g, Rut20e, Rut20f, Rut21e, Tho08a, Tre75d, Ano33c, Hei03, Rot74, Rut10a, Rut10b, Rut14d, Rut15g, Rut15h, Rut19b, Rut21d, Rut21f, Rut25d, Rut25e, Rut27h, Rut10a, vdB13, LRdB+23, Bad04a]. Atomskerns [Hou30]. Atomtheorie [Rut36f]. Atomzertrümmerung [Gam29b]. Atoommodel [Bur18]. Attainment [Mos13a]. attempts [Nav06]. attract [Fla17]. audio [BC16]. Auger [Fra98, BPSW91, Bur86, CSN+00, Fow83, Gro89, Kot91, PMCF+06, SBE08, Sha87b, TGDS99, Wuy91, YuH92, vDK98]. Australia [Jen85]. Authoritative [Kae39]. autobiography [Hah67b]. Autunite [Rut15a]. Avogadro [Lee98, Mur01, Stu00]. avril [LRdB+23]. Award
awarded [Ano08g]. 

awards [Adl12]. azide [WVCW76].

B [Hay63, Ihd64, Raz63, Rut28b, See65, Tre75b, Tre76a, LMC97, MM12, RR13d, RR13f, RdCENdCA14b, RdCENdCA14a, Rut14g, Rut14f, RW25].

Ba [FIY+99, IFSI94, KKK+99]. Back [Bau73a, Rut30f, Rut32c].

Back-Scattering [Bau73a]. Background [Cro74c, NP38, NP40, Ree15b].

Backscattering [CLZ99, ERM95, EMVK90, MKM+07, JBS12, LHB+09, LGA+06, NOSK08, OAEN98, LFA+04, SHCK96, ATS86, AAPN06, And90, Bar55, BJW97, BKP+06, Bau73b, BSS88, Bha82, BP93, Bra98, BPSW91, BVI88, Bur86, CGL+94, Cat93, CFMO12, CYM+03, CCR+03, Cle81, CSN+00, Con82, CRR85, CBZ+12, DJA+04, DGV07, DMV+96, DHS97, DJBV83, Eld85, EFKS06, ESRDV84, FGM+00, Fow83, FL+89, FTT96, FIY+99, GHCA01, GR89, GC00, Gro89, GR+91, HV84, HHAMS93, HKH96, HNS+11, Her84, HKM+09, HW92, HGM+94, Hwa82, Hwa83, IYT+09, IFSI94, Ish83, IOI+11, KB93, KKK+99, KohM94, KBvB+05, KSKF93, KIS+89, KY11, Kot91, KG91, LHNG14, LRF86, LDM91, Lia80, LMC97, LxW99, Lu87, LCL+04, MDJF83, MB90, Man82, MCJK90, MBS+04, MMKS+80, NJS+03, NF+07, NOH+10, NMSK13, Nor79, NBG+84, Oeh86, OHH+09, Par96].

backscattering-ion [HKH96]. backscattering/channeling [LCL+04, Phi83, TJS03, VW+99, WY+99, WY+99].


[Ano17b, FLK92, HFD+99, KKGW85, LSK+88, SML91, WVD+96]. Beams [EMVK90, SWZ+05, YHS97]. Bearing [Hol30]. beat [DBE+85]. became [Ree15a]. Becquerel [Bel82, Mon66, RM00b, Gen95, RM00b, RM00a, RM01]. Becquerel- [RM00b]. Been [Rut37b, Ano08g]. Before [Bad65, Pre05, Bad83, Rut33h]. Began [FW67, Kae48]. beginning [Cot10].
C [Aro65b, Opp64, Poo52, Rön58, Sch31, dB14, RLB33, RR95, RR13d, RR13f, RdCENdCA14b, Rut14g, Rut21g, RC24c, RWWW30, RWL31a, RWL31b, ZWJ+02]. cadmium [Man82]. CAI [GW73]. Calcutta [Ano38b].

Calibration [Bar85, Sku89]. Calls [Ano38b]. Cambridge [Bat72, Dav37, Dys05, Rut14, Seg62, Tre73, Ano32b, Ano32c, Ano95, Ano16, Cat04, Coc46, Hen84, HJS70, Lon16b, Mor74, NP38, NP40, Oli72a, RC65, Sei86, Stu85, Tho65, Seg66, HJS70]. came [Sch15]. Campaign [She17].

Campbell [Ced00, Tur01, Her01a, Her01b, Hub01]. Campos [Rut05a, Rut05n]. Can [Ano06, Ano08a, Hil17, Rut24i]. Canada [Cam05, Mor75, RC04, RCRC05]. cancer [Ano09c, Ano17b]. Canterbury [Tre75b, Ano18b, Cla06, Cot10]. Capture [Rut23k, WR31, Rut24l]. carbide [KIS+89]. carbon [RRKH94]. Career [Kae39]. Careers [Dea03]. Carl [Ano12a]. Carlo [BPSW91]. carried [Rut05a, Rut05n]. carvings [O'C17].

Catalog [Bad74, Tre77a]. Catalysts [WMT01, PNFO88]. Cathcart [Dys05]. Cathedral [Dys05, Cat04, Cat12]. Cathode [Nia98]. cathodoluminescence [CYM+03]. Cause [Rut051, RS02b, RS02f, RS02c, RS02a, RS02g]. Cavendish [Ano66e, Woo46, Ano32b, Cam79, Cro74d, Cro74e, Dev71, Dow08, Kim02, Nav06, Rut19c]. cavities [DMV+96]. Cd [Con82, Win94, CBZ+12]. CdS [LDLM91]. CdTe [GC00]. CdTe/CdS [GC00]. Ce [KSKF93]. Ce/Fe [KSKF93]. CeH [KSKF93]. Celebrate [Ano09a]. Celebration [Ano12a, Rut12a, VRWB12]. Celebrations [Ano72, Oli47]. centenaria [Car98]. Centenary [Ano72, Ano17c, FK85].


Change [Oli84, RS03b, IYT+09]. changed [Moo66]. changer [Ree15a]. Changes [Rut04l, Rut05p, Rut04i]. channeled [SSWB80b]. Channeling [Dav71a, MD69, Bha82, Con82, HKH96, LDLM91, MB90, PAF+98, RSdS+89, Sar79, SN05, SWZ+96, TMJ+99, WCGC86, Whi82, VWD+96, ZCS+12]. channeling-Rutherford [PAF+98]. Chapter [RSWE27, How58].

Character [Ell00]. characteristics [KG91]. Characterization [DJA+04, FTT96, LHNG14, BVI88, Gro89, Her84, KSKF93, Kot91, LDLM91, Rei79, Vas90]. characterized [SBEO86]. Charcoal [Rut06a]. Charge [Boa07, HFD+99, Rut05a, RC08d, Rut04f, Sud13, Rut05e, RG08b, RG09a, Rut05a, Rut08c, Rut08d]. Charge-exchange [HFD+99]. Chart [Ano00b]. chasticy [Rez24]. Chelsea [Lov75]. Chemical [Ano22, Gri09, KEJ87, Lee98, MD09, Rut08a, Rut12f, Stu00, Hwa82, Hwa83, Rut04b, Rut05b, Sin93, Wel90].

Defect [Gam30, Wil83b]. defects [CYM+03, FTT96]. deflectability [RG02a]. Deflection [HBA77, Rut06c, Rut03b]. deflexion [GM13].
degradation [vIS89]. delivered [Ano12a, Rut12a, Rut33h, Rut36h, Rut37a, Rut14, VRWB12]. della [Car98].
deflectability [RG02a]. Demonstrate [Gre97]. Demonstration [LEM65, Sta61, Ram75]. densities [Sim82]. density [DHS97, KB93, KBvB+05, Wil83b]. Department [Ano12a, VRWB12]. depend [Rut04c, Rut04d]. dependence [WCZ+02, Rut01e]. dependent [IYT+09]. Deposited [KE87, Bur86, Hwa82, Hwa83, TGP11]. Deposition [LFA+04, Sin93].
detectors [Lew79]. Determination [DHS97, JBS12, OKR35b, Rot74, Wan96, Cat93, CSN+00, ESRDV84, Rut09k, Rut15d, SWZ+05, Sim82, Tho84, Wil83b]. determined [PBFt83, PNFO88]. deuteron [Stu86a]. Devant [dB70]. Developer [RKL88]. Developer-induced [RKL88]. Developing [Zim69a, Zim69b]. Development [All64, Bra61, GRS87, Kae39, Meh73, TCZY97, Tre71b, Fra05, Har38, Rut36b, Rut36i, Rut37c]. Developments [Boh61]. Deviable [RG02b]. deviation [Rut03f]. devices [CBZ+12]. Devons [Hug08, Kay63].
Discovered [Ano19]. Discoverer [MM03, RCRC04]. Discoveries [Kra76, Pae15a, Seg76, Seg80a]. Discussing [Ano09, Tem89]. Discussion [Ano09a, Ano22, Ano32c, Ano00b, Ano06, Dar56b, FW67, Gen95, Gra64, GLR06, GLR12, GT95, HHK87, Mal71, Mon66, Rog13, Rom64, Rut66b, Bad83, Car98, Cla13, Dar56a, DMPA08, FW85, Gan17, GA71, Kae48]. discrete [Sad81]. discursive [dAMxx]. discursivos [dAMxx]. Discussion [Gam29a, GRR+31, Rut14d, RCW+26, RAC+29, RMM+29, RCE+32,
RSA$^{+34b}$, RSA$^{+34a}$, Rut70, Rad13, Rut03g. discussions

[CCJ$^{+34}$, LRdB$^{+23}$]. Disintegration [Ano23b, CW32, Rut04m, RC21a, Rut22a, Rut22b, Rut22c, RC24b, Rut24k, Rut25a, RC29, Sod84, Tre71b, Tre71a, Rut04a, RC21b, RC22, Rut24m, Rut34g]. Diskussija

[Rez29, Rez32]. dispersive [Bar85, Sku89]. Disintegration [Ano23b, CW32, Rut04m, RC21a, Rut22a, Rut22b, Rut22c, RC24b, Rut24k, Rut25a, RC29, Sod84, Tre71b, Tre71a, Rut04a, RC21b, RC22, Rut24m, Rut34g].

Diskussija [Rez29, Rez32]. dispersive [Bar85, Sku89]. Distinction [Ano23b, CW32, Rut04m, RC21a, Rut22a, Rut22b, Rut22c, RC24b, Rut24k, Rut25a, RC29, Sod84, Tre71b, Tre71a, Rut04a, RC21b, RC22, Rut24m, Rut34g].

E. [Aro65b, Rad13]. Each [Aro32b]. Early [Adl97, Bai13, Her72, KT88, Kra11, Lav14, Lew79, Nav06, Rut24c, Tre71b, Kau86, Kra13, Rut32b]. Earthquakes [Cam14]. easily [Rut03b, Rut03f]. easily-absorbed [Rut03b]. Eastbourne [Fle57]. Ed [Hei71, Ihd64, Stu85]. Edited [Sin81]. edition [Poo52]. Editor [Hay63, Hub13, Rut35a, Ale46, Mos14a]. Editorial [RSWE27]. eds [Stu79b]. Effect [RB03a, RB03b, RB04a, Rut04e, RP07, Rut19h, Rut20i, Cla13, GHCA91, RB04c, RR13c, Rut10a]. Effects [ERM95, ORH34a, ORH34b, Rut12f, RB04b, viS89]. Efficiency [RB15].

Efforts [Kae36]. Ehrendoktorwürde [Lüd13]. Ehrenfest [Kle10, Pia24].

Eigenschaften [Rut05j, Rut06i]. Einfluss [Rut01b]. eine[n]g [Rut06i].

Einstein [Sno67, Sno68, Bou99, Bru79, HW96, Kle10, Shas7a]. Elastic [WVH$^{+99}$, DY88, RRKH94, RR95, SHAI09]. Electric [Rut06c, Rut26g, Rön58, Rut01e, Rut03b, Rut03f, Rut36a]. Electrical [Rut96b, Rut97b, Rut99, RO80a, Rut23l, Rut23p, Rut23q, RCW$^{+26}$, Rut26h, Rut96a, Rut00d, RG08c, RO88b, Rut23s, Rut24a, Rut24b, Rut25i].

Electricity [Rut01f, Rut01a, Rut08e, Rut20b, Rut20c, Rut20d, Rut21a, Rut21b, Rut21c, Rut22e, Rut22f, Rut22p, Rut25b, Tho03, Tho05, TT33, TT69, TWE04, TR96].

Electrification [Rut97a, Rut98]. électrique [RG08c]. electrodynamics [Sch58]. electroless [Man82, PNFO88]. Electromagnetic [Rut35f, Rut35g, Rut35i, Rut35j]. Electron [Cha64, Coo13, FGM$^{+00}$, Fow83, Rut19d, Rut21h, WMT01, BKP$^{+06}$, Bra98, BPSW91, Bur86, CGL$^{+94}$, CSN$^{+00}$, GR89, Gro98, HBA77, Ish83, Köt91, LHNG14, Lu87, MB90, Phi83, PMCF$^{+06}$, Rei79, SSWB80b, SSWB80a,
Sad81, SBE086, Sin93, Stu83, WV07, Wl83b, Wu91, Yuh92, vdK89).
Electronic [KT84]. Electronics [McG84]. Electrons [Ano23b, Rut23k, WR31, LRD8+23, Rut10a, Rut10b, Rut24l, Pia24, LRD8+23]. Electrostatic [ESWW82]. Electrotechnical [Ano12b]. elektro- [Rut03b, RG09b, Rut24a, Rut24b]. Elektronen [Rut10a, Rut10b]. Element [Rut22g, Ber07]. elemental [ITZ+09, LGF+99, PBFT83]. Elementary [Boo07, Can97, KH23, So04, Wic65, Rut34g]. Elemente [Rut04a, vdB07]. Elements [Ano22, Ano33b, Ano37i, EC13, Eva96, Fow72, HHK87, Jaf71, Jaf72, Kra76, Lai37, Mos13c, Mos14b, OR33, OKR55a, Rut91, RC21a, Rut22a, Rut22b, Rut22c, Rut22d, RC24a, RC24b, Rut24k, Rut37b, RS66, Rut38f, Sar72, SL90, Kra13, Rez23, Rez25, Rut04m, Rut04a, Rut15m, Rut15n, Rut16c, RC21b, RC22, Rut24m, Rut33b, Rut33d, Rut33e, Rut33g, Rut37c, Rut37f, Sea88, Seg80b, Wel90, vdB07, vdB13]. Elephant [Mac97]. Elettrica [MSB+37]. Ellipsometric [BVI88]. ellipsometry [BKP+06, CSN+00, SPL+08, TGDS99]. Ellis [Poo52, Sch31]. Ellyard [Sei86]. Elsevier [Bat72]. Emanation [Rut03a, RB03a, RB03b, Rut04g, Rut04h, Rut04o, Rut09a, RT09, RB32, RS02r, RS02r, RS02k, RS02i, RS02h, Rut04e, RB04b, RB04c, RR08d, RR08a, Rut09j, RR12, RR13c, RR07, RR08a]. Emanationen [Rut01b]. Emanations [Rut01c, Rut06a, Rut01b, RS02d, RS02e, RS03a, RG11]. emergence [Pol60]. Emerging [Gus12, Hon03]. émises [RH06a, RG08c]. emissions [RR07]. Emitted [Mos12a, RWWL31b, GF10, Rut00g, Rut00e, Rut07g, RG08c, RG09b, RR13a]. emittierte [Rut00e]. end [Kru75, Man77]. Enduring [Lon16a]. energetic [vdB89]. Energia [MB+37]. Energie [RM00b, RM00b, Mon66, Rut07h]. Energies [Ell14, BP93]. Energy [Ang90, Ano22, Ano23b, Ano32a, Ano32b, DY67, EMV90, Hes00, Jen11, OKR55b, RM00b, RM00a, RM01, Rut12e, Rut24l, RC29, Rut35k, Seg85, Sod49, Bar49, BVI88, DJA+04, HK96, MB90, RR95, Rut07h, Rut07j, Rut36c, Rut36d, Rut36e, SWZ+05, Sku89, TCZY97, WM88, Yuh92, vdK89, Ano32c, RM00b, Mon66, Tre75a]. England [Stu9b, Ano07, She17]. English [Hei74]. enhanced [Sin93]. Enrichment [MKM+07, DGC07, Shi88]. Enrico [GLR06]. entertaining [Hill17]. entstehenden [HS39]. Entstehung [Pol60, Rut31d, Rut31c]. Entwicklung [Har38]. environment [Mer96]. epilayers [LDLM91]. Episodes [Eva96, Fea77, Fea79]. epitaxial [Phi83]. epitaxy [CFMO12]. Epoc [Fea62b]. Era [Cro74b, Lon16c, Lon16d]. erbum [TJR03]. Erdbalter [HS39]. eredényei [RA45]. Erinnerungen [Rut32b]. Ernest [Ano12a, Ano19, Ano23b, Ano66b, Bad04b, Boh26, Cha65, Cra71, Gar62, Hah62, Har38, Hub13, Lüdt13, Mil13, Murl13, RSW27, Rut26a, Sch31, Seg80c, dR92, dCA68, Ano36b, Ano66d, Ano66c, Ano71a, Ano99b, Ano99c, Ano16, Ano18b, Anoxa, Anoxb, Bad71, Bad75, Bad04a, Bad08, Badxx, Bie99, Bro62, Cam97, Can98, Coh88, Coh89, Coh91, Coh92, Coh97, Dea03, Far63a, Fia17, Flo70, Gra02, Gri09, Hah67a, Hei03, Hill17, KS76, Lab38, Lai37, Lee98, Low79, Lüdt13, Mac11, Mar38, MM03, McK62, Moo74,
[Bau73a, JBS12, KEJ87, LHB+09, LGA+06, SHCK96, And90, Bau73b, Bur86, Cat93, DSH97, DJBW83, FGM+00, FIY+99, GR89, IFSI94, Ish83, KKK+99, LHNG14, PBFt83, Phi83, Rei79, Rei81, SER+01, SCP+91, TMJ+99, TGP11, Wan96, WVCW76, YKH+84]. Fine [Rut15a]. First [Kay63, RC04, RCRC05, Cat12, HBA77, RCO+54, Str11, BC16]. first-hand [Sha87a].

Fine [Rut15a]. First [Kay63, RC04, RCRC05, Cat12, HBA77, RCO+54, Str11, BC16]. first-hand [Sha87a].

sica [Seg76].

Fission [FW67, Gra64, HS89, Stu94, FW85, Gam29b, GA71, Sea88, Ano94].

Ged16].

v $ar{e}$ [RCO+54]. Flight [DJA+04, HKH96, NMSK13].

KBvB+05].

Fluorinated [EMVK90].

EMVK90].

Fly [Dys05, Cat04, Cat12].

Focussing [RLB33].

Foil [Gre07].

Foils [Mar61].

Folkestone [Sin81, Stu79b].

FONTANUS [dR92].

Force [OaHNM98, IFSI94, LHNG14, Par96, Ree08, RC25, Tab97]. Forces [Bri65].

Foreword [Ano50, Gri09, Rut65a, Rut65b].

Formation [HS89, AAPN06, DMV+96, Par96].

Formerly [Mon66].

Formula [Dem03, Gor55, BB80, Kru75, MDJF83, Man77, ZB74]. Fortschritte [Rut09a].

Forty [Rut38a, Rutxx].

Forward [SHCK96, LGF+99].

Found [Ano38b].

Found [Ano12a, Rut12a, VRWB12, We90].

Foundations [Bey49, NL00].

Founder [Boh61].

four [Kis82].

Fourier [TSG99].

fragments [HS89, Sch33].

francaise [Mon66].

Franck [Gea14a, Gea14b].

Frederick [Ano09b, Asi64, Coh97, Far63b, Fle57, Fre79, Gis12, How58, Jen85, Kau86, Ken63, Mer96, Pan57, Pan64, Rus56b, Rus61, TG36, Wil64, Wil69]. free [Fow83, Sod02].

freien [Sod02].

French [RB04a, RG08b, RR09a, BR11b, CCJ+34, Geo38, Hei34, LRdB+23, Rut05c, Rut05g, Rut06b, RH06a, RR07, Rut07h, RG08c, RR08a, Rut12b, RC12a, Rut12c, dB70].

Frequency [Mos13c, Mos14b, Rut94, Rut5, Rut9a, Cat93, RBR15, Rut28c].

Freud [Bru79].

Friends [Kle10].

Frontier [Ree08].

Frontispiece [Rut30f, Rut32c].

Frost [Sno67, Sno68].

Frühzeit [Rut32b].

Fund [Fla17].

fundamental [Bey49]. funds [Rut34m].

Funeral [Ano37e, Ano37f].

Furnace [Cho01].

Further [MSB+37, RC24b].

G [Hei74, Mon66, Rut16a, Sno67, Sno68, Tre75b].

Ga [GRS+91, PAF+98, WVH+99].

GaAs [Bha82, CGL+94, GHCA91, KG91, LxW99, MB90, Wuy91, ZCS+12].

GaInAs [Sha87b].

GaInP [BBR80].

Galileo [Cro01, Sha87a].

Game [Lew02, Ree15a].

game-changer [Ree15a].

Gamma [RB04a, Rut15e, Rut32c, Tre76b, CBZ+12, RR13d, Rut32d, Wbn53].

Gamma-Rays [Rut32c].

GaMnAs [ZCS+12].

Ganow [Har01].

GaN [CCR+03, IOF+11, LCL+04, WCZ+02].

GaP [KG91].

Gas [Ano22, RB01, RB02a, Rut29i, GR89].

Gasen [RM00b].

Gases [Cha12, Rut97a, RM00b, RM00a, RM01, Tho03, Tho06, TT33, TT69, Rön58, Rut97c, Rut01e, RN13, Rut24e, Rut24f, Rut24g, Rut24h, Rut26i, Rut26j, Rut26k, Rut26l, Rut29b, Rut29c, Rut29d, Rut29e, TR96, YHS97].

Gathering [Ano37e].

Gaugin [CCR85].

Gauthier [Pia24].

Gauthier-Villars [Pia24].
Ge [TJRS03, Phi83]. géant [Bro62]. Geburtstag [HM31, SR37].
Gedächtnis [Har38]. Gedächtnisrede [SR37]. gehaltenen [Sod02]. Geiger
[Kor12, Ano71b, Boa07, Kor12, TGMR74]. Geiger-Müller [Kor12]. General
[RN04, NM12, Hei34, Wer23]. générales [Hei34]. generation
[RR13, Rut16c]. genius [Mar11, Reo08, Wil83a, Sei86, Stu85, Tre85].
genius [Mil95]. gente [Sno68]. geodynamics [EMR07]. Geometrical
[Liv92]. geometries [SML91]. geometry [DM96]. geophysicists
[Bow14, Goo10]. geopolitical [Ree15a]. George
[Bur64, Sno67, Sno68, Ano59, Har01]. geringer [Rut05j]. German
[BR11a, BR12c, FH60, Gam28, Gam29b, Gei38a, HM31, HS39, Har38, Hou30,
Kor12, Lid13, MMKS+80, Pol60, RM00b, Rut00c, Rut01b, RS02b, RA02a,
RG02a, Rut02c, Rut02d, RS02a, Rut02e, Rut03b, Rut04b, Rut04a, Rut05j,
Rut05b, Rut06i, Rut07g, Rut07a, RL07, Rut08c, Rut08d, Rut08h, Rut09b,
Rut09c, RG09b, RG09a, Rut09d, Rut10a, Rut10b, Rut11e, Rut11h, RR12,
Rut13b, RR13a, Rut13g, Rut21d, Rut24a, Rut31d, Rut31c, Rut32b,
Rut36f, Rut15, Sod02, SR37, Som38, Tho08a, Tre74b, vdB07, vdB13, vW35].
germanium [Sku89]. Geschichte [FH60]. Geschwindigkeit [Rut07g].
Geschwindigkeiten [RR13a]. GeSe [REJ86]. get [Jar08]. gettering
[HHAMS93, NFM+07]. GeV [Wil74]. Giant [Gen95, McL62]. Giants
[MD67]. Giroux [Dys05]. Giuseppe [Bel82]. given [Rut15e]. Giving
[Ano32a]. glancing [WZS+91]. Glasgow [Sod02]. Glass
[Rut09f, DJBW83, Rut10g]. glasses [STB+01]. Glimpsing [Cat12]. global
[Rut15a]. glorious [How58]. glow [Jor16]. Glowing
[Rut01f, Rut01a, Rut08e]. goal [Ano19]. Goettingen [Rut31b]. Gold
[Gre07, HHAMS93, LHNG14, Man82]. golf [Man76]. good [Bat72].
Göttingen [Lid13, Sme97b]. Goudsmit [Lak96]. grandes [Mon66].
Graphite [ERM95, ESRDV84]. Gratulation [SR37]. Gravitation
[RC19]. Great
[Ano37c, Cro01, HT10, Rut33b, Sha87a, Bat72, Bre97, Gri09, Kae48, Wei70].
Greater [Pye71]. Greatest [Ano32c, Foc37, Focxx, Ano37d]. green [Wil15].
grosser [Rut31d, Rut31c]. Group [Dys05, Rut12e, Cat04]. Groups
[RWWW30]. grown [KIS+89, ZCS+12]. Growth [OaHN98, Zim69a,
Zim69b, DGC07, FGM+00, HV84, HGM+94, KSKF93, SDD+08, YKH+84].
growth-mode [KSKF93]. GsSb [Sar79]. Guest [Ano09a]. Guthrie
[Rut26f]. Guy [Sei86, Sen87, Stu85]. Gwyn [Hei80, Rut15c].
Heat [Rut05, RR12]. Heating [RB03a, RB03b, RB04a, Rut04e, RB04b, RB04c, RB05c, RR13c]. Heavily [Lu87]. Heavy [OKR33, OHR34a, OHR34b, Rut33c, RK34, RSA+34b, RSA+34a, Rut33f, GHCA91, RRKH94, RR95, Rut37e, Rut37f]. heavy-ion [GHCA91, RR95]. Heilbron [Bad04a]. Heisenberg [Lak96, Sch58, Bre97]. Held [Bir61, Meh73, Tre75b, CCJ+34, LRD+23, Sod02]. Helium [An08a, Ano32b, BR11a, BR11c, Rut03a, BR09, Rut31f, Rut37d, Rut66a, BR11d, BR11b, BV188, KY11, Rut74, RC27, BR11b]. helium- [RVKH94, RR95]. Heilbron [Bad04a]. Heisenberg [Lak96, Sch58, Bre97]. Held [Bir61, Meh73, Tre75b, CCJ+34, LRD+23, Sod02]. Helium [An08a, Ano32b, BR11a, BR11c, Rut03a, BR09, Rut31f, Rut37d, Rut66a, BR11d, BR11b, BV188, KY11, Rut74, RC27, BR11b]. helium- [RVKH94, RR95].


matrix [LRF86]. Matter [Ano08a, Ano32a, Fre79, Rut06k, RG08e, Rut12f, Rut22f, Rut22p, Rut23l, Rut23r, Rut23q, Rut26h, Rut38d, Rut38e, Tre75b, Whe04, FR33, Rut06i, Rut11i, Rut15m, Rut15n, Rut20b, Rut20c, Rut20d, Rut21a, Rut21b, Rut21c, Rut22e, Rut23s, Rut24a, Rut24b, Rut25b, Rut25i, Rut28d, Rut28e, Rut30g, Rut34e, Rut12, Wyb72, Rut13c, Rut13d]. Max [Lädi13, Lädi13, Rut29f, Ole81]. Maximum [RBR15]. Maxwell [Lon16a]. May [Ano32a, Ano06]. Maynard [Lov75]. MBE [BRR80]. McGill [Ano90b, Eve06, Ano07, Bad79a, Fea62a, Hah02, Hei79b, Lon16b, Mor84, Sha37, Sod03, Ter38, Tre79]. McTavish [Wil15]. Mean [Jen11, Fow83]. Means [Mos12b, Rut37b, Yuh92, vBD89, vBBO90].

21
measured [HKM+09, SER+01]. Measurement [Boa07, vBD89, HKH96, YKH+84]. Measurements [MG12, Bur86, CYM+03, DBvdV87, KKGW85, LSK+88, Rut11e, SDD+08, vBBG090, vBBD+92]. Measuring [KB93, Mar61, Rut16e, SBE08].

motions [Rut29b, Rut29c, Rut29d, Rut29e]. Moving [Wei72, Wei85]. Mr. [Ano45]. MST [HFD+99]. Müller [Kor12, Kor12]. multicus [DJA+04]. multilayer [SSWB80b]. multilayers [KSKF93, PMCF+06]. multiple [PPA+02]. My [dR92, Cam97, Coh88, Coh89, Coh91, Coh92, dB70]. Mylar [BP93]. Mysterious [Dys05]. Mystery [Ano32a].

N [Aro65b, Opp64, Pia24, Rön58, WZS+91, Mon66, RR95, WVV+99]. nach [Sod02]. Nachweis [HS39]. NaCl [MKM+07, HKM+09, Rei79]. Nagaoka [Bad67, Bad85b, Hei67]. Name [Ano17b, VPW14]. naming [Stu86a]. Nanocluster [Par96]. Nanocomposites [LFA+04]. Nanoparticle [WMT01, LHNG14]. Nanoscale [LHB+09]. nanosized [DMV+96, FGM+00]. narrow [MBS+04]. nas [dAMxx]. Nations [Ano37]. native [Win94]. Natur [RS02b, RS02a, Rut08c, Rut08d, RG09a, Sod02]. Natural [Rut24k, RW25, FH60, Leo05, Rut24m, Rez25]. Nature [dCAH64, Aro65b, Opp64, Rut04f, Rut08a, RG08d, Rut08r, RR08e, RR09c, RR09a, RR09d, dCENdCA64, Meh73, Reo08, RS02b, RS02f, RS02c, RS02a, RS02g, RG08b, Rut08c, Rut08d, RG09a, RR09b, RC24c, Sod02, Wen53, RR09a]. Naturwissenschaft [FH60]. naucnye [Rez72]. Na [KKK+99]. Neale [Stu79b]. Near [MKM+07, Kae36, KBvB+05, GHCA91, RR95]. Near-Surface [MKM+07, KBvB+05, GHCA91]. Needs [Rut19c]. neglected [EMR07]. Nekrolog [Som38]. nella [Seg66]. Nelson [dCA37, Ano36a, Ano46a, Ano64, Ano66e, Ano66b, Aro65a, Aro66, Bad04b, Boh37, Bra37, Bur64, Cha37, Coc63, Eva39a, Eva39b, Eve37, Har38, M.39, Seg66, Sni37, Sod37, Som38, Tho37a, Tho37b, dB32, Badxx, Brn64, Cha65, Cha14a, Cha14b, Cha14c, Cra71, Dal50, Foc37, Gei38a, Har38, Jar08, Mil38, Mil63, O'C17, RC62, Seg80c, Seg62, Seg64]. neodymium [KG91]. neon [NV188]. neue [HV188]. Neuere [Hou30]. neuesten [Baby]. Neutral [KFGW85, Gro89, HFD+99]. neutrals [VBD89]. neutrino [Nav66]. Neutron [Cha32a, Cha32b, Cha33, GLR06, Pol91, Rog13, Rut35e, Bad83, Bro97, Bur13a, Bur13b, Bur15, HS39, LSN+09, LxW99]. Neutron-Induced [GLR06]. neutron-irradiated [LxW99]. neutron-rich [LSN+09]. Neutrons [HFD+99]. Neutronen [HFD+99]. Neutrons [Elf14, GLR06, HFD+99]. Newer [Bad66, Dav37, Rut37a, Rut37b, Rut14]. Newham [Rut37a, Rut14]. Newton [Tho08a, Ano38h, Ano09a, Tho08a, Tho08b]. Newtonb [Fae72]. Ni [AAP06, SHA109, Wuy91]. Ni/Au/Te [Wuy91]. Ni/Sm [AAP06]. nickel [BPSW91]. nickel-implantation [BPSW91]. Nicole [Mon66]. Niels [AH13, Bro73b, FK85, Kle10, Moe66, Rub97]. Nineteenth [Tho65]. Nineteenth-Century [Tho65]. ninety [HJS+70]. niobium [Rot74]. nitride [Bur86, Wua82, Wua83, Vaa90, Wan96]. Nitrogen [Ano22, Rut19h, RRKH94, Rut10a, Whi82, Rut19g]. nifeis [dAMxx]. No [Ano23b, Ano09c, Kra76]. Nobel [Adl03, Ano37i, How58, Jar08, Lau37, Adl12, Ano08b, Ano09a, Ano09a,
Nobelpräger [Tho08a]. Nomenclature [Rut10e, Rut13i, RG11]. Non [Ole81, RRKH94, BP93, LMC97, Low79]. Non-Rutherford [RRKH94, BP93, LMC97]. Non-Technical [Ole81, Low79]. Note [Dem03, RS02d, RS02e, Rut05d, Rut11f, Rut12c, Rut29f, Rut16e, Rut05j].

Notes [Ano02, Cha64, Eic72]. nötige [RM00b]. novel [DM96, Nic32, Rut16e]. November [Ano48, Lov75, Rut27e, Rut27j, Rut28a, Rut28g, Rut29j, Rut29k, Rut30a, Rut30h, Rut37a, Rut14]. Novodobá [Rut38b]. noyau [Hei34]. noyaux [CCJ +34]. Nuclear [AK11, All64, dCA56, dCA58, Ang00, Ano94, Ano00b, Anoxa, Anoxd, Bad83, BB36, Boh61, Bri65, DMPA08, Fre12, Gam30, Gea62, Gra64, Hug12, Jen00, Lav14, Mas72, OKR35b, OKR35a, Rut20g, Rut20e, Rut66c, Sea88, Seg85, Sei86, She83b, Stu94, Tre75a, And73, Ano17d, Bad05, Bey49, Cat93, CAN88, FLP+89, Gar62, GA71, Hei67, Her77, Hugo, Kae48, Leo05, MBS+04, NGB+84, Pae15a, RCRC90, RCRC92, Res15a, Rut21d, RA45, SHA109, Shi72, STB+01, Sie11, Stu83, WH72, Wen53, Whi82, ZWJ’02, vW35, Rez21, Stu79a].

nucleation [FGM+00]. Nuclei [BB36, Gam29a, Rut25a, Rut25g, Rut26f, Rut27f, RAC+29, RCE+32, Rut70, CK33, CCJ+34, MDJF83, Rez28, Rut25f, RC25, Rut30b, Rut30c, Rut30d, Rut30e, Rut33i, Rut34g, ZB74].

nucleosynthesis [Cot10]. Nucleus [Ano06, Kow53, Kra12, Stu86b, Cat12, Gam28, Hei34, Hou30, LSN+09, Pae15b, Rez29, Rez32, Rut24d].

Nuklearnoe [Rez21]. Number [Dar56b, Mar61, Mos12a, MR14, RG08a, RG08e, Dar56a, GF10, Lee98, Stu00]. Numbering [Jaf71, Jaf72, Sar27]. numération [RG08c].

O [Cat93, Coh40, IFSI94, KKK+99, OaHN98, Rez29, Rez32, FGM+00, FLY+99, IFSI94]. O.M [dCA37, Ano36a, Ano37h, Ano46a, Ano66b, Boh26, Boh37, Bra37, Cha37, Cro35, Eva39a, Eva39b, Eve37, Rut28a, Rut28g, Rut29j, Rut29k, Rut30a, Rut30h, Rut31a, Rut31e, Smi37, Sod37, Tho37a, Tho37b, dB32]. O.M. [Eve39, Eve13, Swa40]. Oaks [Wel90]. obey [MDJF83, ZB74]. Obituary [dCA37, Ano38c, Boh37, Bra37, Bur38, Cha37, Eve37, M.39, Rut28b, Rut34f, Rut35], Smi37, Sod37, Tho37a, Tho37b, Lab38, Lai37, Mar38, Mil38, Tho70, SR37, Som38]. oblique [Wan96]. obras [dAMxx]. Observation [NOSK08, NOH+10, OHN+09, NFM+07]. observed [CFMO12, OHR34a, OHR34b, RC24c]. Obtained [Ano06, LFA+04, SLA+00]. Obtaining [Mos12b]. October [CCJ+34, Stu79b, Wel90]. octobre [CCJ+34]. Ogni [Sno68]. ohmic [Wuy91]. Old [Kae36, NL00, Rut35c, Ano09c]. Oliphant [Bat72, Sei86, Tre73]. Once [Ano32b, Tre75d]. One [AK15, Ell60, Lew02]. Only [Ano32b]. Ones [Pia24]. Onward [Ano32a]. Opening [Rut09e, RCE+32, RSA+34b, RSA+34a, Rut34g]. opens [Ano18b]. Operation [Ano37i, Lai37, Ano37c]. Opinion [Wil15]. Oppenheimer [And73, Ano17d, Bad05, Bey49, Cat93, CAN88, FLP+89, Gar62, GA71, Hei67, Her77, Hugo, Kae48, Leo05, MBS+04, NGB+84, Pae15a, RCRC90, RCRC92, Res15a, Rut21d, RA45, SHA109, Shi72, STB+01, Sie11, Stu83, WH72, Wen53, Whi82, ZWJ’02, vW35, Rez21, Stu79a].
[Rut05k, Rut06h, Rut08i, Rut10c, Rut10d, Rut24e, Rut24f, Rut24g, Rut24h, Rut28c, Cat93, CCJ+34, Mak08, Rut05m, Rut06j, Rut23a, Rut23b, Rut23c, Rut23d, Rut23e, Rut23f, Rut23g, Rut23h, Rut23i, Rut23j, Rut31f].

**Proportion** [RB05a, RB05b, RB06a, RB06b], **propriétés** [CCJ+34].

**Prospect** [Ano23b]. **Protection** [Rut36g, Rut36j, Rut36k].

**Protons** [BP93, Rom97, Ano17b, YHS97]. **protonated** [HW92]. **Proton** [MMKS+80]. **Protons** [Ano32b, CW32, Elf14, OR33, OKR33, MMKS+80].

**Pulse** [Wie78]. **pulsed** [YHS97].

quality [KIS+89], **Quanta** [Kle66, dB70]. **Quantentheorie** [Gam28, Gam29b, Hou30, Pol60]. **Quantitative** [Par96, PMCF+06], **quantités** [RC12a]. **Quantities** [RC12b, Eve05, Rut05j, RC12a]. **Quantity** [JBS12]. **Quantum** [Hon03, Nia98, AH13, Bai13, Cle65, Cle70, Con62, Gam28, Gam29b, Gam85, Hou30, KHFA67, PPA+02, Pol60, Sch58, SC13, Tem89].

**quarks** [Seg80a]. **quarter** [Ano33d, Rut33j].

**Rad** [Pia24, Sin81, Whe80, dB14]. **Race** [Dys05, Cat04]. **radar** [Fra05].

**Radiation** [Hes00, MM12, Pod10a, Rut97a, RO99, Rut99, RC03, Rut04g, Rut04h, Rut04o, Rut06b, Rut11a, Rut28c, Rut29a, AB09, Jor16, Rut97c, Rut00d, RG02a, Rut06n, Rut17]. **Radiations** [MR14, Rut12f, Rut15i, Rut15g, Rut15h, Rut16b, RCE30, RCE51, Rut10b, RB02a, Rut12g, Rut13b, Rut13f, Rut13g, Rut29h, Rut35f, Rut35g, Rut35h, Rut35i, Poo52, Mil13, Sch31]. **Radio** [Ano08a, Bar06, MG12, McG84, MF11, Rut00c, Rut01c, Rut02b, Rut02c, Rut03e, Rut04l, Rut04c, Rut04k, Rut05h, RB05b, Rut06a, RB06b, RG08a, Rut13f, Rut13i, RC19, Rut04, Rut07a, Sod04, Cat93, Rut00g, Rut00b, RS02i, vdB13].

**Radio-Active** [Rut04l, Rut05p, RG08a, Rut13i, MF11, Rut01c, Rut02b, RB05b, Rut06a, RB06a, RB06b, Rut13f, Rut00g, Rut00b, RS02i]. **Radio-Activity** [Ano08a, Bar06, MG12, Sod04, Rut00c, Rut03c, Rut04c, Rut05h, RC19, Rut04, Rut07a, RS02i].

**radio-frequency** [Cat93]. **radioactifs** [RB06a].

**Radioactive** [Ano37i, Bad68, CDE+31a, CDE+31b, CDE+31c, Fre79, Hol30, Lan37, Poo52, Rut06b, Rut06e, Rut06f, RL07, Rut08a, RG08e, Rut08f, RR09d, Rut11c, Rut12g, Rut27f, RCE30, Rut35e, RCE51, Rut07b, Sch31, Tre71a, Tre76b, CR21, Mak08, Rut00e, Rut01b, RB02a, RG02a, RS02j, RS02k, RS02l, Rut02c, RG02b, RS02h, RS03a, Rut04m, Rut04i, Rut04b, Rut04a, Rut05b, Rut06n, Rut07h, Rut07j, RG08c, RG09b, RR09k, RR09a, RG11, Rut11e, Rut12a, Rut12b, Rut12c, Rut12h, RR13a, RR14, Rut27l, Rut27h, Rut10b, Mec14, RS03b, Rut03g, Rut13b, Rut13g, Hub13, Mil13]. **radioactiven** [Rut04a].
KBvB+05, KSKF93, PAF+98, PCK+08, Rut14i, Rut16c, RW25, SER+01,
SC13, Sin93, Sku89, SDD+08, Vas90, Win94, WVH+99, WYV+99]. Rayleigh
[Cla13]. rayonnement [Rut06b]. rayons [Rut12b, Rut12c]. Rays
[Ano22, Bau73a, Cha12, GRR+31, Gen95, MD13b, MD13a, Nia98, Rut97a,
RM00b, RM07a, RM01, Rut02b, RB04a, Rut04f, Rut05a, Rut05k, Rut06c,
Rut06h, Rut09f, Rut10f, Rut11j, Rut12e, RdCENdCA13, RdCENdCA14b,
RR14, RdCENdCA14a, Rut15e, Rut27a, Rut27c, Rut27d, RWWW30, RE31,
Rut32e, RB32, RWLB33, Rut66b, Bau73b, Car98, CK33, Ron58, Rut02c,
RG02b, Rut03b, Rut03f, RB05c, Rut05e, Rut05n, Rut05m, Rut06i, Rut06j,
Rut10g, Rut12a, Rut12b, Rut12h, RR13d, RR13f, RR13b, RR13e, Rut14g,
Rut14h, Rut14f, RB15, RBR15, Rut18, Rut25c, Rut26b, Rut26c, Rut26d,
Rut27l, Rut27h, Rut31d, Rut31c, Rut32d, Rut33i, Seg80a, TR96]. razlozhenie
[Rez25]. RBS [Fow83, RMM+13]. re [Ano71b]. re-evaluated [Ano71b]. reached
[Ano19]. reaction [And73, Cat93, FLP+89, HV84, MBS+04, Pae15a, SHAI09,
STB+01, Whi82, ZWJ+02]. Reactions [Ang00, Rut29i, MBS+04]. reactive
[Rei79]. reader [HT10]. Reading [Ano38b]. real [SDD+08]. real-time
[SDD+08]. Realism [Hug90]. reality [Jak79]. Really [Jun11]. realm
[Kae48]. Reanalysis [VW09]. reasoning [Lon03]. Received [Bad66].
Recensioni [Mec14, dB14]. Recognizes [Ano23b]. Recoil
[SHCK96, Tre75d, RRKH94, SHAI09, Sin93, YKH+84]. Recollections
[Ano66a, Bat72, Dev71, Kap66a, Kap66b, Kap73b, Kay63, Lew72, Moo78,
Oli72b, Tre73, Oli72a]. recombination [HFD+99, Rut97c]. Reconstruction
[Nia98, NM12, RN04]. Recorded [Sme97b, Kay63]. records [Sme97a].
recovery [ZWJ+02]. Rede [SR37]. Reflection
[MD13a, RdCENdCA13, GM09, KBvB+05]. Reflections [Lew72]. reflectometry
[PKC+08]. Reflexion [MD13b]. refractory [Her84]. Refugee [Seg85]. regime
[HZ15]. Region [MKM+07]. registration [GR12]. regular [Elf14]. Reichweite
[Rut31d, Rut31c]. Reissue [Poo52]. Relations [RC29]. Relative [RB05b,
RB06b, RB06a]. Relativity [Wer23]. Released [OKR35b]. Releasing
[Ano23b]. Remark [Her72, Rut33i]. Remarkable
[Ano22]. Remarks [Rut03e]. Reminiscences
dCA68, Boh61, Hah62, Kay63, Coc46]. Reply [MM04, Ano09a]. Report
[CDE+31b, Rut06b, Rut27k, Rut34h, KHFA67, Rut15j, Rut15k, Rut15l,
Rut25h, CDE+31a, CDE+31c, Mar61]. reported [Bey49]. Reports
[Ano19, RSWE27, LRdB+23, CCJ+34]. Represented [Ano37j]. Reprint
[Ano36b]. reprints [KT88]. reproductions [Wri64]. Required
[RM00b, RM00a, RM01]. Research [Ano38b, EC13, FF17, Rut11f, Rut27i,
Rut30i, Ano23b, How58, RA45, Wel90, Ano09a]. researchers [Fla17].
Researches [Sod02, Rut33d, Rut33e, Sod03]. Reservoir [Wil15]. resistance
[SCP+91, SDD+08]. Resisting [Kra11]. Resolution
[LHB+09, NOSK08, Bha82, CFMO12, DGC07, HNS+11, HGM+94, IYT+09,
NJS+03, NFM+07, NOH+10, NMSK13, OHN+09]. resolved [AAPN06].
resonance [FLP+89, Sin93]. resonant [HZ15, MBS+04]. responsibility
31


Results [Ano22, TGMR74, RA45]. Retardation [Rut06k, Rut06l].

retrospect [Stu79a]. Return [Ano08f]. reversed [HFD+99, RFF+01].

reversed-field [HFD+99, RFF+01]. Review

[Ano12a, Ano06, Ano64, Aro65b, Aro65a, Aro66, Bad04a, Bat72, Bel82,
Ble57, Bro86, Ced00, Coc63, Coh40, Dys05, Fea70, Gar81, Hay63, Hei71,
Her01a, Hil17, Hub01, Hub13, Ihd64, Lin40, Mos13b, Oes70, Ole81, Pia24,
Poo52, Rei63, Sch31, See65, Seg62, Seg64, Seg66, Stein86, Stein81, Stu78,
Swa40, Tre73, Tre75a, Tre75b, Tre76a, Tre77a, Tre85, Tur01, Vuc86, Wec80,
Whe04, Ano33d, Opp64, Rut33j, HJS70]. Reviews

[dCAH64, Bir57, Rut00b, Rut00c, Rut00d, Stu85]. Revisited

[Stu00, AH13, Bre83, HBA77]. Revolution [Kae48]. revolutionaries


[Rut15i, Rut08g]. rich [LSN+09, SHA09, KE87]. Richardson [Ano22].

ricorrenza [Car98]. Right [dCA37, Boh37, Bra37, Cha37, Eve37, Sch15,
Smi37, Sod37, Tho37a, Tho37b, d32, Ged16]. Rise [Sche83b, Tre71b, Hug93].

rites [Ano37j]. Robert [Ano12a, Sna07, Sna08, Rut33h]. Rock [Kae36]. role

[PPA+02, PCK+08]. Romer [Mon66]. Röntgen

[Coo13, Rut97c, Rut97a, RM00b, RM00a, RM01, TR96]. Röntgenstrahlen

[RM00b]. room [DGC07]. Roots [Ano99]. Rotation [Moo78]. Rowland

[Ble57, Ano60]. Royal [Rut36h]. rozdenija [Kap73a]. Rt

[Coh40, Swa40, Eve39]. Rt. [Eve13]. Rückstreu [MMKS+80].

Rückstreu-Analysen [MMKS+80]. Runge [Agu96, BB80, Far87]. Russell

[Ano16]. Russia [Szy85]. Russian [Kap73a, Rez21, Rez22, Rez24, Rez25,
Rez28, Rez32, Rez38, Rez71, Rez72]. Rufhefen

[dCA37, Ano12a, Ano36a, Ano37h, Ano38c, Ano46a, Ano60, Ano64, Ano66e,
Ano66b, Ano09b, Aro65a, Aro66, Bad04a, Bad04b, Badxx, Bir57, Bir61,
Ble57, Boh26, Boh37, Bra37, Bro86, Bru64, Bru79, Bur64, Bur38, Cha37,
Cha65, Cha14a, Cha14b, Che33, Coh40, Cra71, Cro35, Dal50, Dav37,
Eva39a, Eva39b, Eve37, Eve39, Eve13, Foc37, Gar81, Gei38a, HM31, Har38,
Hay63, Hil17, Hwa83, Jak79, Jar08, Kra14b, Lak96, Lüd13. M.39, Mill3,
Mill38, Mol63, Mon66, Ole81, Pia24, Pol60, Poo52, Raz63, Rön58, Rut28g,
Rut29, Rut29k, Rut30h, Rut31e, Sch31, Sch58, Seg02, Seg64, Seg66, Seg80c,
Lot71, Smi37, Sod37, SR37, Som38, Stu78, Swa40, Zsy85, Tho08a, Tho37a,
Tho37b, Tre75b, Tre76a, Vuc86, Whe04, dBi4, dB32, dR92]. Rufhefen

[ATS86, AAPN06, Agu96, AB09, AK11, Ate46, All64, And90, dCA38, dCAl8,
dCAH64, dCENdCA64, dCA68, Ano04b, Ano04c, Ano06, Ano07, Ano08a,
Ano08d, Ano08e, Ano08f, Ano08g, Ano09a, Ano19, Ano22, Ano23b, Ano33c,
Ano33d, Ano35b, Ano37a, Ano37d, Ano37g, Ano37h, Ano37i, Ano37j, Ano37k,
Ano37l, Ano38a, Ano38b, Ano46b, Ano48, Ano50, Ano66a, Ano66b, Ano66d, Ano66e,
Ano71a, Ano71b, Ano72, Ano05, Ano06, Ano09a, Ano09c, Ano10, Ano16, Ano17c, Ano17d, Ano18b, Anoxxa, Anoxxb, Anoxxc, Anoxxd, App62, Ano65b, Ast70, Bad67, Bad68, Bad69, Bad71, Bad74,
Bad75, Bad79a, Bad83, Bad85a, Bad85b, Bad04b, Bad08, Bar85, BJW97,
Bar83, BB80, BKP+06, Bau73a, Bau73b, BSS88, BCM13, Bha82, BP93].

**Rutherford** [Bir62, Bir63, Bis90, Bla50, Bla72, BRR80, Boa07, Boh61, Bou99, Bow14, Bra98, Bra61, Bra04, Bre00, Bre83, Bro73b, Bro62, BPSW91, BVI88, BS79, Bur13a, Bur13b, Bur15, Bur64, Bur83, BELG68, Bur18, Bur82, Bur86, CGL+94, Cam98, Cam99, Cam00, Cam05, Cam14, Car98, Cat93, Cha54, CFMO12, CYM+03, CCR+03, CLZ99, Cla13, Cle81, Coc83, Coh88, Coh91, Coh92, Coh95, Coh97, CSN+00, Con82, Cot10, CCR85, CBZ+12, Cro74c, Cro74b, DBE+85, DJA+04, Dan66, Dar56b, DGC07, Dav71a, Dav71b, Dav37, Dav57, Dem03, Dev71, Dev91, DMV+96, DHS97, DM96, DBvdV87, Dow08, DYF67, DY68, DJBW83, Ear66, Eic72, ESWW82, Eld85, Ello60, Elo61, Els02, Ely89, ESM95, EMVK90, EC38, Eve39, Eve13, Far63a, Far87, Fea40, Fea62a, Fea62b, Fea72, Fea73a].

**Rutherford** [Bir62, Bir63, Bis90, Bla50, Bla72, BRR80, Boa07, Boh61, Bou99, Bow14, Bra98, Bra61, Bra04, Bre00, Bre83, Bro73b, Bro62, BPSW91, BVI88, BS79, Bur13a, Bur13b, Bur15, Bur64, Bur83, BELG68, Bur18, Bur82, Bur86, CGL+94, Cam98, Cam99, Cam00, Cam05, Cam14, Car98, Cat93, Cha54, CFMO12, CYM+03, CCR+03, CLZ99, Cla13, Cle81, Coc83, Coh88, Coh91, Coh92, Coh95, Coh97, CSN+00, Con82, Cot10, CCR85, CBZ+12, Cro74c, Cro74b, DBE+85, DJA+04, Dan66, Dar56b, DGC07, Dav71a, Dav71b, Dav37, Dav57, Dem03, Dev71, Dev91, DMV+96, DHS97, DM96, DBvdV87, Dow08, DYF67, DY68, DJBW83, Ear66, Eic72, ESWW82, Eld85, Ello60, Elo61, Els02, Ely89, ESM95, EMVK90, EC38, Eve39, Eve13, Far63a, Far87, Fea40, Fea62a, Fea62b, Fea72, Fea73a].

**Rutherford** [Bir62, Bir63, Bis90, Bla50, Bla72, BRR80, Boa07, Boh61, Bou99, Bow14, Bra98, Bra61, Bra04, Bre00, Bre83, Bro73b, Bro62, BPSW91, BVI88, BS79, Bur13a, Bur13b, Bur15, Bur64, Bur83, BELG68, Bur18, Bur82, Bur86, CGL+94, Cam98, Cam99, Cam00, Cam05, Cam14, Car98, Cat93, Cha54, CFMO12, CYM+03, CCR+03, CLZ99, Cla13, Cle81, Coc83, Coh88, Coh91, Coh92, Coh95, Coh97, CSN+00, Con82, Cot10, CCR85, CBZ+12, Cro74c, Cro74b, DBE+85, DJA+04, Dan66, Dar56b, DGC07, Dav71a, Dav71b, Dav37, Dav57, Dem03, Dev71, Dev91, DMV+96, DHS97, DM96, DBvdV87, Dow08, DYF67, DY68, DJBW83, Ear66, Eic72, ESWW82, Eld85, Ello60, Elo61, Els02, Ely89, ESM95, EMVK90, EC38, Eve39, Eve13, Far63a, Far87, Fea40, Fea62a, Fea62b, Fea72, Fea73a].

**Rutherford** [Bir62, Bir63, Bis90, Bla50, Bla72, BRR80, Boa07, Boh61, Bou99, Bow14, Bra98, Bra61, Bra04, Bre00, Bre83, Bro73b, Bro62, BPSW91, BVI88, BS79, Bur13a, Bur13b, Bur15, Bur64, Bur83, BELG68, Bur18, Bur82, Bur86, CGL+94, Cam98, Cam99, Cam00, Cam05, Cam14, Car98, Cat93, Cha54, CFMO12, CYM+03, CCR+03, CLZ99, Cla13, Cle81, Coc83, Coh88, Coh91, Coh92, Coh95, Coh97, CSN+00, Con82, Cot10, CCR85, CBZ+12, Cro74c, Cro74b, DBE+85, DJA+04, Dan66, Dar56b, DGC07, Dav71a, Dav71b, Dav37, Dav57, Dem03, Dev71, Dev91, DMV+96, DHS97, DM96, DBvdV87, Dow08, DYF67, DY68, DJBW83, Ear66, Eic72, ESWW82, Eld85, Ello60, Elo61, Els02, Ely89, ESM95, EMVK90, EC38, Eve39, Eve13, Far63a, Far87, Fea40, Fea62a, Fea62b, Fea72, Fea73a].

**Rutherford** [Bir62, Bir63, Bis90, Bla50, Bla72, BRR80, Boa07, Boh61, Bou99, Bow14, Bra98, Bra61, Bra04, Bre00, Bre83, Bro73b, Bro62, BPSW91, BVI88, BS79, Bur13a, Bur13b, Bur15, Bur64, Bur83, BELG68, Bur18, Bur82, Bur86, CGL+94, Cam98, Cam99, Cam00, Cam05, Cam14, Car98, Cat93, Cha54, CFMO12, CYM+03, CCR+03, CLZ99, Cla13, Cle81, Coc83, Coh88, Coh91, Coh92, Coh95, Coh97, CSN+00, Con82, Cot10, CCR85, CBZ+12, Cro74c, Cro74b, DBE+85, DJA+04, Dan66, Dar56b, DGC07, Dav71a, Dav71b, Dav37, Dav57, Dem03, Dev71, Dev91, DMV+96, DHS97, DM96, DBvdV87, Dow08, DYF67, DY68, DJBW83, Ear66, Eic72, ESWW82, Eld85, Ello60, Elo61, Els02, Ely89, ESM95, EMVK90, EC38, Eve39, Eve13, Far63a, Far87, Fea40, Fea62a, Fea62b, Fea72, Fea73a].
WCRCG86, WZZ +91, Wan96, Wei11, WV07, Wer23, WMT01, Whi82, Wic65, Wie78, Wil15, Wil74, Wil83b, Wil83a, WVCW76. **Rutherford** [Win94, WM88, WVD +96, WYH +99, WYV +02, Wu91, Wyb72, YKH +84, YHS97, Yuh92, ZWJ +02, ZBS74, Zim69a, del79, vBD89, vBBGO90, vBBD +92, vIS89, vDK89, Bel82, Her01b, Bat72, Ced00, Coh40, Fea70, Hei71, Her01a, Hub01, Ild64, Oes70, Opp64, Sei66, Sin81, Stu79b, Swa40, Tre73, Tre75a, Tre77a, Tre85, Tur01, Weh80]. Rutherford-scattering [DBvdV87, SML91]. Rutherford. [Lin40]. Rutherfordium [Cam97]. Rutherfords [Tre74b].

S [Ano32b, Coh40, Lin40, Lov76, Rut05j, Swa40, RRKH94, LFA +04]. Sallhofer [Lak96]. samples [LGF +99]. Samuel [Hug08, Kay63]. Sanctuary [Rut34k, Rut34n]. Santilli [Bur13a, Bur13b, Bur15]. Satellite [Stu86b]. Saturday [Hil17]. sawtooth [TMO +95]. Says [Ano19, Ano22, Ano23b]. SbCl [ESRDV84]. scale [Gro89]. scanning [FIY +99, Ish83, KY11, LHNG14]. Scattering [Bau73a, BELG68, Dav71a, Dav71b, DVF76, Ear66, Eic72, Gor55, LEM65, MD69, Mar61, Mar72, Rut11j, Sta61, TGRM74, WMT01, Wic65, Agu96, AB09, Bab71, Bar83, BB80, BCM13, BBR80, DM96, DBvdV87, DVF87, FLK92, GW73, HDF +99, Hei68, Kru75, LFG +99, Man77, Pae15b, RR95, RFF +01, Rit92, Rut11i, RC27, Rut12, SC13, SML01, TBO +92, TMO +95, YHS97, vBD89, vBBGO90, vBBD +92, RN13, RC25]. Scholars [Rut34n]. Scholastic [Ano66d]. Schrödinger [Lak96]. Science [dCENdCA58, Ano09b, Ano20b, Ano23b, Ano32c, Anoxb, Anoxxc, Boh61, Dea03, Dev91, Dys05, Gen95, Mon66, RN04, Rut33b, Rut36b, Rut36i, Rut36j, Rut36k, Rut37c, Rut38c, SG85, SMJ35a, SMJ35b, Sch57, Sin81, Stu79b, Zim69a, Zim69b, AK11, Bad79a, Bro62, Car98, Far16, FH60, HT10, Hil17, How58, Jel08, Kat15, Lev17, dAMxx, Mer96, Moe66, NP38, NP40, RCRC90, Reel5b, Rut36g, Giat12, dAMxx, Rut23p]. Sciences [Hei71, WH72]. Scientific [Bar05, Bar06, Bru79, Coc63, Eve06, Har07, Har01, Mil13, Rut27g, Rut33h, Rut33b, TGRM74, dB32, Bev49, Fra05, Hah67b, Rez71, Rez72, Wri64]. scientifiques [Mon66]. Scientist [Ano37c, Ano38b, Ced00, Foc37, Her01a, Her01b, Hub01, Tur01, Ano37d, Cam98, Cam99, Focxx, Kap73a, RCRC92]. Scientists [Ano06, Ano22, Ano32b, Ano33a, Ano37k, Dys05, Kae66, Seg85, Cat04, DG99, Grie09]. scienza [Car98]. scoperta [Seg76]. screened [ST76]. Se [Bha82]. Se-implanted [Bha82]. Search [Cha64, Cho01, Gec14a, Rut37d, Tre71a, Eid48, Lew02]. sechs [Sod02]. sechzigsten [HM31]. Second [Ano23b, HBA77, Jar08]. second- [HBA77]. Secondary [Ren81, BPSW91, Cle81, CSN +00, Gro89, NMSK13, Wil83b]. Secret [Ree16, Cam15, Ano32c]. Secrets [Ano32a, Wen53]. section [Bab71, Far87, LMC97, Wil83b, ZB74, Rut09f, Rut09e]. sections [RRKH94, ST76]. seeds [Lon16d]. Seeing [Dys05, Rec06, Bie99]. Seen [Ano32b]. Sees [Ano23b]. segregation [SHA109]. Sehr [Rut02c]. Selected [Sch58, Rez71, Rez72]. Self [Gar81, Stu78, FTT96, Tre77b]. self-ion
space [Wil15]. species [KKGW85]. Spectra
[Mos13c, Mos14b, Mos14a, Rut14k, Rut15e, Rut14i, Rut16c, Wie78]. Spectre
[RR07, RR08a]. spectrograph [KLL^90, LSK^89]. spectrographs
[FLK92]. spectrometer [HKH96]. spectrometries [SCP^91].
Spectrometry [CLZ99, ERM95, MKM^07, JBS12, SHCK96, BPSW91,
Bur86, CFMO12, Cle81, CSN^00, CCR85, DJA^04, ESRDV84, FLP^89,
FIY^99, Her84, Hwa82, Hwa83, IYT^09, IFSH94, KB93, KKK^99, KKGW85,
LRF86, LDM91, Lia80, LxW99, MCJK90, MBS^04, Par96, PAF^98,
PNFO88, PMCF^06, PCK^08, RRKH94, RMM^13, Reu81, SBE06e, SN05,
SWZ^05, STB^01, Sku89, SLA^00, SDD^08, SPL^08, Tab97, TCZY97,
TGP11, TGD99, Wil83b, WM88, vdK89]. spectrometry/channeling
[LxW99]. spectroscopic [BKP^06, TGDS99]. spectroscopies
[CBZ^12, Gro89]. Spectroscopy
[EMVK90, NOSK08, OaHNM98, LFA^04, And90, Bar85, BKP^06, Bra98,
Bur86, CGL^94, Cat93, CSN^00, CBZ^12, DMV^96, DHS97, Fow83, FTT96,
GR89, HFD^99, HNS^11, HKM^94, KSKF93, KIS^89, Kot91, LHNG14, MB90,
NJS^03, NFM^07, NOH^10, NMSK13, OHN^99, PMCF^06, Reu81, SER^01, Sim82,
Sin93, Sku89, SDD^08, TF89, TGD99, Vas90, Win94, Yuh92, ZWJ^02,
vdK89]. Spectrum [RR07,
RR08b, RdCENdCA14b, RRR14, RW25, Rut14g, RR08a, Rut14h].
speculations [Kra13, Tre74a]. Speech
[Ano38b, SR37, SR37]. speed
[Rut11h, RR13a]. Speeding
[Ano23b]. spin
[Par96, Sin93]. Spinners
[Moo78]. Spinning [Elf14]. spirit
[Cam79, Dys05]. Split
[Ano32c, Dys05, Cat04, She17]. Splitting
[Gar81, Stu78, Ano37d, Rez23, Tre77b]. Spread [Zim69a, Zim69b, Wan96].
[Cat93, DHS97, GC00]. sputtering [Rei79, WM88]. SrTiO
[HGM^94]. Sr
[Rut05c]. Stability [Rut20f, Rut21f, PMCF^06, Rut25d, Rut25e]. stabilizing
[PCK^08]. Stable [Hos00]. stages [DGC07]. stainless [Whi82].
Stalin [Sno67, Sno68]. Standard
[Rut13a, Rut11b, Rut14j, Sku89, Rut14l]. Standards
[CDE^31a, CDE^31b, CDE^31c, Rut10e]. Standpoint
[Sod04]. State
[RCW^26, Hei79a]. States [BB36]. Stationary [BB36]. Statistical
[VV09]. statistics [GRS^91]. steel [Whi82]. Step
[Gen95]. Stephen
[Mon66]. Stevens [Brn79]. Steward [Ano45]. Stewart [Fos49, Sei86, dR92].
still [Kae48]. Stillborn [Tre75d]. Stockholm [Ano08e]. Stoichiometric
[ESRDV84]. stoichiometry [GHCA91, Ish83]. stopping [SBE06e]. Stores
[Ano23b, Ano32a]. Story [Fea77, Mon66, Sod49, Eva39a, Eva39b, Fea79,
Gam85, How58, Jor16, Rec15a, Mon66]. Stoughton [Stu85]. straggling
[WZS^91]. Strahlen [RG02a, Ru02c, Ru06i, Ru31d, Ru31c].
Strahlungen
[Rut13b, Rut13g, Mec14]. Strain
[NJS^03, WYW^99, LCL^04, WVH^99]. Strange [Jor16]. Straus
[Dys05]. Strength
[Mot63]. stroenie [Rez21]. strong [Ano04]. Structural
[LDLM91, KIS^89, Tho84]. Structure
[Bro73b, CCJ^34, Gam29a, Hon03, KH23, Nia98, RN04, Rus56a, Rut11j].
Rut13c, Rut13d, Rut13h, Rut14a, Rut14b, Rut14c, Rut23l, Rut23r, Rut23q, Rut26h, Rut27a, Rut27b, Rut27c, Rut27d, Rut27f, RAC+29, RCE+32, Rut70, Tre75b, Gro89, Hei34, NOH+10, Nor79, OHN+09, Rez21, Rez29, Rez32, Rut14d, Rut14e, Rut21d, Rut23s, Rut24a, Rut24b, Rut25i, Rut26b, Rut26c, Rut26d, Rut26e, Rut30b, Rut30c, Rut30d, Rut30e, Rut12, Sod20, Sod22, Sod04, Wyb72, Yuh92, CCJ+34, Rut27l].

structures [NMSK13, SSWB80b, SSWB80a]. Struktur [Rut24a, Rut24b]. strukture [Rez29, Rez32]. Stuart [Lov75]. Student [BELG68]. Studied [OaHNM98, ATS86, Bha82, CYM+03, Eld85, IFSI94, KBvB+05, LCL+04, MBS+04, SHA109, Sin93, TGP11, WYV+99, WCZ+02, Yuh92, ZWJ+02].

Studien [Mos13b]. Studies [Dav71b, Rut25f, Rut25g, SHCK96, WCGC86, YKH+84, Bey49, BBR80, GRS+91, Nor79, Oeh86, PAF+98, SSBW80a, Sad81, TF89, TMJ+99, Whi82].

Study [Bau73a, Bau73b, CBZ+12, FIY+99, Ish83, LGA+06, LFA+04, Rut27i, AAPN06, Con82, DGC07, FGM+00, GC00, HV84, HGM+94, IYT+09, LxW99, Lu87, NBG+84, REJ86, RS03d, SDD+08, WVD+96, WVH+99, vIS89, vdK89].

Studying [dCENdCA58, Dav71a]. sublattices [ZWJ+02]. submarine [BC16, Kat12, Rut15j, Rut15k, Rut15l]. submarines [Rut15f]. Subsequent [Jen85, Fra05, Sad81]. substance [Rut00g, Rut00b, Rut00e]. Substances [Cha12, Mil13, Rut00a, Rut01c, Rut02b, Rut08a, RG08a, Rut08f, RR09d, Rut10f, RCE30, RCE51, CR21, Mak08, Rut00f, Rut01b, RB02a, RG02a, Rut02c, RG02b, Rut07b, Rut07j, RG08c, RG09b, RR09b, RR09a, Rut12a, Rut12b, Rut12c, Rut12g, Rut12h, Rut13b, RR13a, Rut13f, Rut13g, RR14, Rut10b, Ano08a, Poo52, Sch31]. Substanz [Rut00e]. Substanzen [Mec14, RG09b, Rut13b, Rut13a, Rut13g, Rut01b, RG02a, Rut02c].


Success [Ano32a, Bad79b, Tre75d]. Successful [Ano08a]. Succession [Rut04l, Rut05p, Rut04i]. such [Gri09]. suggests [Gan18]. Suicidal [Bad79b]. sulfur [RR95]. Summary [Eld85, Tho84]. Summer [Ano36a, Ano46a, Hab67a]. Summer-Time [Ano46a, Ano36a]. Sun [Bah00, Tip13]. sunshine [Har05]. superconducting [FLP+89].

Superconductors [CLZ99]. Superheavy [Kra13]. superlattices [Rut16e].

supersonic [Rut16e]. Supports [WMT01]. suppression [H215]. supreme [Cam98, Cam99, Ced00, Her01a, Her01b, Hub01, Tur01]. Surface [CGL+94, Dav71b, MKM+07, NOSK08, NMSK13, Nor79, RCO3, SHCK96, Tho84, CBZ+12, FLP+89, GHA91, KBV+05, NOH+10, OHN+09, SLA+00, Yuh92]. Surfaces [Dav71a, MD69]. Surfactants [LGA+06]. surprised [Tre83]. surveillance [BC16]. Survey [Dav37, Rut34g]. sustained [And73]. Svedberg [Mos13b]. Swift [CW32, Moo78]. switchable [SHA109].

symmetric [RFF+01]. Symposium [Meh73, Tre75b, Wyb72, Stu79a, Stu79b]. synthesis [Rut34g]. synthesized [KKK+99, WVD+96]. System [Ree06, vdB07, vdB13, AAPN06, Eld85, HH99, HH96]. systems
[PCK+08, RMM+13].

T [Ano32b, Sei86, Sen87, Stu85, Tre75a]. T. [Ano36a, Ano46a]. Ta/GaAs [Eld85]. table [Kra13]. tale [CSW96]. Talk [Rut08g, Rut15i]. Talks [Kap74]. Tanganyika [SWS65]. Te [Con82, CBZ+12, Win94]. teacher [Kap73a]. teaching [Wil74]. Technical [Ole81, Low79]. Technique [Hon03, WMT01, CCR85]. Techniques [Bad68, NBG*84, PBFT83, SSWB80b, Yuh92]. Technologies [Gus12, BC16]. Technology [Anoxxc, KT84, Mor75]. Teil [RS02b, RS02a]. Teilchen [Kra14b]. Teilchen [RS02b, RS02a]. Teilchen [Kap73a]. Telluride [Man82]. Temperament [SMJ35a, SMJ35b]. Temperatur [Rut01b]. Temperature [RP07, Rut30i, Bha82, DGC07, FL+89, LCL+04, Rut01b, vBBGO90, vBBB+92]. temperatures [vBD89]. ten [DMPA08, NP38, NP40]. tens [HKH96]. tenu [CCJ+34, LRdB+23]. term [Gar81]. Terms [Mar72]. Test [Ree06]. Tests [Ano32b]. tetrafluoroethylene [EMVK90]. tetragonal [WCZ+02, ZCS+12]. Texas [Wel90]. Textbooks [Nia98, RN04, NM12]. TEXTOR [TvBO+92, vBBGO90]. Thaddeus [Gar81, Stu78]. Thales [Lak96]. Theater [Hil17]. Their [Kac36, Mil13, Ole81, Rut19a, Cla13, Mak08, PMCF*06, Rez28, Rut11e, Rut12g, Rut13b, Rut13f, Rut23a, Rut23b, Rut23c, Rut23d, Rut23e, Rut23f, Rut23g, Rut23h, Rut23i, Rut23j, Rut26f, Rut26g, Rut30b, Rut30c, Rut30d, Rut30e, Rut32a, BB32, Seg80a]. Theoretical [Lon03, Mch73, Hei34]. Theorie [Rut09b, Rut09c, vW35]. théoriques [Hei34]. Theory [Ang00, Ano32b, GEA14a, Kap74, KH23, Mon66, Mot72, Rut10f, Rut11a, Rut29i, Rut37g, Rutxx, Sod04, Tre71b, Tre71a, Tre75c, Tre75d, Cli65, Cli87, Gam28, Gam29b, Gam85, Hon30, Lev17, Pol60, Rut09k, Rut09b, Rut09c, Rut36f, Rut36h, Sch57, vW35]. Therapy [Sla13]. thermal [GHCA91, Lu87]. Thermodynamics [Kle66]. thick [ZCS+12]. thickness [CSN+00, CCR85]. Thin [JBS12, LHB+09, Mar61, SCP+91, And90, Bur86, Cat93, DHS97, DJBW83, FGM+00, FIY+99, GR89, HY84, IFB+94, IOI+11, KKK+99, PBFT83, Reu81, Sim82, SDD+08, TMJ+99, VCWW76]. Thin-film [SCP+91, HY84, Sim82]. things [Bat72]. third [HBA77]. third-power [HBA77]. thirteen [Bey49]. thirties [Hen84, Sei86, Stu85]. Thirty [Gan85, Rut33h]. thirty-fifth [Rut33h]. Thomas [Dea03]. Thomson [Kra14b, Lak96, Rön58, Whe04, Kub11]. Thorium [HS89, RO99, Rut00a, RS02c, RS02h, RW16, RWWW30, RWL31b, ESWW82, Flo70, GF10, Rut00g, Rut00b, Rut00c, Rut00e, Rut00f, RS02d, RS02e, RS02j, RS02i, RS02k, RS03d, RH06b, Rut11d, RR13b, Rut16d, Rut21g]. Thoriumverbindungen [Rut00]. those [RCO+54]. Thousand [Ano22]. threat [BC16]. Three [And73, Eld48]. Thus [Ano32b]. Ti [Cat93, FGM+00, KKK+99, PCK+08]. Tiger [Gus12]. Time [Ano46a, Ano17, Kay63, Ano36a, DJA+04, Hah62, HKH96, Hei79b, Lev17, NMSK13, SDD+08]. time-of-flight [DJA+04, HKH96]. times
[Bre97, Cro01, Stu79b]. Tin [KT84, NL00, PNFO88, SER+01]. Tinsley [Cot10]. TiNx [Kot91]. TiNx/TiSiy [Kot91]. TiO [LFA+04]. tip [Tab97]. titanium [Bur86, NFM+00, Vas90]. titled [Mon66]. Today [Mas72].

Tobacco [vBBD+92]. Told [Ano33a]. Tomography [WMT01]. Tomonaga [Sch58]. Tondokument [L¨ud13]. Tonspurerhaltung [L¨ud13]. Tool [vG95].

topography [SLA+00]. Torn [Ano32b]. torus [RFF+01]. total [KBvB+05].

Total-reflection [KBvB+05]. Traced [Ano06]. traduction [Mon66].

Traité [Cur10]. transform [TGD99]. Transformation [Ano33b, Mosi12a, Rut05i, Rut11g, Rut04j, Rut04b, Rut05b, Rut05o, Rut12d, Rut36c, Rut36d, Rut36e, RG11]. Transformations [OKR35b, OKR35a, Rut06e, Rut06f, Rut11c, Rut36c, RL07, Rut07b, Hub13].

Transformed [Ano08a]. transient [CBZ+12]. transition [Yuh92].

Transmission [Rut01d, SSWB80a, Sad81, BKP+06, CSN+00, Lu87, Phi83, Pye78, Rut03b, SSWB80b, Wil83b, Rut02d]. Transmutation [Ano19, Ano33d, F.33, OR33, OKR33, OHR34a, OHR34b, Rom64, Rut34i, Rut37b, Rut38d, Rut38e, Rut38f, Rut30g, Rut33a, Rut33h, Rut33j, Rut33d, Rut33e, Rut33f, Rut33g, Rut37e, Rut37f, Seg80b, Tr73a, Ano33c, Ano37i, Lau37, Mon66].

Transmutations [Ano08a]. Transmute [Ano22]. Transmuted [Ano32b]. transport [KIS+89, TF89]. transported [YHS97].

transuranium [Sea88, Wel90]. trapped [GR89]. Treatise [Sod04].

Treatment [Liv62]. Trenn [Stu78, Gar81]. Tribute [Ano37l, Foc37, Pan57, Pan64, Ano37j, Focxx, Kub11, MSB+37].

Tributes [Ano32b, Ano38a, MSB+37, Lau37]. Trieste [Meh73].

trifluoromethanesulfonyl [NOSK08, NOH+10]. triology [AH13].

Trimethylpropylammonium [NOSK08]. Trinity [Ree06]. Trip [Rut25h].

tritium [Eid48]. trudy [Rez71, Rez72]. True [MM03, RCR04]. Truths [Kae36].

Tubo [Coo13, Kor12, RB15, RBR15, Rut17]. Tungsten [Br98, KEJ87].

tunneling [FY+99, LSN+09].

Turn [BS79, Sin81, Stu79b, Whe80, Hei79a, Rig79]. Turning [Gre07].

Twentieth [Ano12a, Rut12a, VRWB12]. Two [Ano32b, Ano04, Lav14, Bar83, Oli66a, Oli66b, Oli85b].

Type [Rut29a].


Ultra [GR+31, Rut98, RMM+29, CMF012]. Ultra-Microscopic [RMM+29].

Ultra-Penetrating [GR+31]. ultra-shallow [CMF012]. Ultra-violet [Rut98].

ultrathin [HGM+94]. Umwandlungen [RL07].

Umwandlungsgeschwindigkeit [Rut11b]. unbounded [Kae48].


Universe [Kae36, KT88]. Universität [Lüd13, Sod02].

Universities [Ano09a, Lon16b]. University [Ano12a, Ano12b, Ano09b, Bir61, Bro86, Cla06, Dav37, Eve06, Hah62, Hei71, Rut12a, Rut33h, Sod02, Sy85, Tre75b].
REFERENCES

[Ano22, Ano32b, Ano45, Rog13, Rut38a, Rutxx, AK15, Ano95, Con62, DMPA08, EC13, Gam85, Gib17, HIJS70, Kae48, Mor74, Sea88, Wel90].

Yesterday [Ano09a]. Yielding [Ano32b]. York [Ble57, Dav37, Sin81, Stu79b]. Young [App62].


References


REFERENCES


REFERENCES


REFERENCES


Anonymous. Professor Rutherford to whom the Bressa Prize has been awarded. *Manchester Guardian*, ??(??):7, March 21,


Anonymous:1915:CA


Anonymous:1919:AGR


Anonymous:1920:PBA

Anonymous. Physics at the British Association. *Nature*, 106(2663):357–358, November 11, 1920. CODEN NATUAS. ISSN 0028-0836 (print), 1476-4687 (electronic). URL http://www.nature.com/nature/journal/v106/n2663/pdf/106357a0.pdf. From this meeting report: “The results thus show that the elements may be considered as being composed of these hydrogen nuclei, or ‘protons’ as Sir Ernest Rutherford would have us call them, ….” It is believed that this is the first published mention of the word proton.

Anonymous:1920:SLA


Anonymous:1922:WTE

Anonymous. Way to transmute elements is found: Dream of scientists for a thousand years achieved by Dr. Rutherford. new age, says Richardson. Remarkable result of bombarding nitrogen gas with the alpha rays of radium. Result of a chemical collision. Dr. Kendall on Rutherford. results of the discovery. energy of high power. *New York Times*, ??(??):34, January 8, 1922. CODEN NYTIAO. ISSN 0362-
Anonymous. A miracle of broadcasting — the BBC’s biggest experiment. *Radio Times*, ??(??), September 28, 1923. Cited in [Wil83a, page 466], with the quote “An historic milestone in the History of Wireless was reached the other night by the broadcasting of the Presidential Address of the world famous scientist Sir Ernest Rutherford... It was the first occasion in this or any other country on which the voice of a public man had been transmitted simultaneously through six wireless stations hundreds of miles apart and also made to operate loud-speakers at overflow meetings... Perhaps the most amazing result of the experiment was that the sound of the speaker’s voice was heard in the North of Scotland before it reached those who were sitting in the back of the hall in which he was actually speaking.”.


Anonymous. Atom torn apart, yielding 60% more energy than used. But two British scientists succeed only once in
each 10,000,000 bombarded. Battered with protons. Hydrogen atoms are thus transmuted into helium — conservation theory seen upset. Tests made for 3 years. Dr. J. D. Cockcroft and Dr. E. T. S. Walton of Cavendish Laboratory, Cambridge explain work. *New York Times*, ??(??):1, May 2, 1932. CODEN NYTIAO. ISSN 0362-4331 (print), 1542-667X, 1553-8095. URL http://search.proquest.com/hnpnewyorktimes/docview/99718000/.

**Anonymous:1932:SGD**


**Anonymous:1933:APW**


**Anonymous:1933:BAB**


**Anonymous:1933:BAS**


**Anonymous:1933:TAL**


**Anonymous:1936:AKS**

REFERENCES


Anonymous:1936:RLE


Anonymous:1937:ABR


Anonymous:1937:DLRe


Anonymous:1937:DLRb


Anonymous:1937:DLRa


Anonymous:1937:FLR


Anonymous:1937:LRa


REFERENCES


REFERENCES

a BBC radio talk on 16 December 1945 by Sir Henry Tizard about Lord Rutherford.


REFERENCES


[Ano09b] Anonymous. Ernest Rutherford and Frederick Soddy, McGill University, Montréal, Québec. Web site., 2009. URL http://www.aps.org/programs/outreach/history/historicsites/rutherfordsoddy.cfm. From the site: "The English plaque read[s]: ‘At this location, Ernest Rutherford and Frederick Soddy, during 1901–03, correctly explained radioactivity as emission of particles from the nucleus and es-"
established the laws of the spontaneous transmutation of the elements.”'


REFERENCES

Anonymous:2018:CAC


Anonymous:2018:PON


Anonymous:20xx:ERF


Anonymous:20xx:LSH


Anonymous:20xx:RJN


Anonymous:20xx:RNW


Appleton:1962:YR


Arons:1965:BRCb

REFERENCES


Arons:1965:BRC


Arons:1966:BRC


Asimov:1964:FS


Aston:1970:RR


Abelson:1986:CPA


Babbitt:1971:PIC


Badash:1965:RBC

REFERENCES

DEN AJPIAS. ISSN 0002-9505 (print), 1943-2909 (electronic). URL http://scitation.aip.org/content/aapt/journal/ajp/33/2/10.1119/1.1971267.

Badash:1966:HNA


Badash:1967:NRF


Badash:1968:RBA


Badash:1969:RBL


Badash:1971:IBE


REFERENCES


REFERENCES


REFERENCES


REFERENCES


Battistig:2006:VIS


Blackett:1950:RA


Blackett:1959:RML


Blackett:1972:R


Blewett:1957:BRE


Bleaney:1999:ISE

REFERENCES

Boorse:1966:WAV


Boato:2007:MEC


Bohr:1926:SER


Bohr:1937:ORH


Bohr:1961:RML


Bohr:1963:EAP


Bohr:1987:EAPb

REFERENCES


[Boltwood:1911:EHD]


[Boltwood:1911:PHP]


[Boltwood:1911:VEH]


[Boltwood:1911:LPH]


[Bragg:1916:IAD]

REFERENCES


REFERENCES


REFERENCES


1986. CODEN JVTAD6. ISSN 0734-2101 (print), 1520-8559 (electronic).


REFERENCES

WOEW. ISSN 0953-8585 (print), 2058-7058 (electronic).

Campbell:1999:RSS


Campbell:2000:RNP


Campbell:2005:RCA


Campbell:2014:AEM


Campos:2015:RSL


Cochran:1988:MWU

nrdc.org/nuclear/nuc_88010001a_79.pdf. See comment [Shi88].


REFERENCES


REFERENCES


1954. CODEN PRLAAZ. ISSN 0080-4630 (print), 2053-9169 (electronic). URL http://rspa.royalsocietypublishing.org/content/224/1159/435. Lecture delivered at McGill University, Montreal, Canada on 7 October 1953.


Cohen:1988:MDE


Cohen:1989:MDE


Cohen:1991:MDE


Cohen:1992:MDE


Cohen:1995:RCV


Cohen:1997:ER


Condon:1962:YQP

REFERENCES


REFERENCES


REFERENCES


REFERENCES


[dB70] Louis de Broglie. Mon anxiété devant le problème des quanta. (French) [My anxiety about the problem of quanta]. In Homberger et al. [HJS70], pages 181–188. ISBN 0-224-61914-4. LCCN AC5.H64.

REFERENCES


Birthday booklet, to be published privately in Wellington, New Zealand, in February 1969.

Andrade:1964:BFR

Andrade:1958:WSS

Andrade:1964:RNA

Dean:2003:ISS

Dec:1967:RML

delRegato:1979:ER
REFERENCES


REFERENCES

[APLAB] APPLAB. ISSN 0003-6951 (print), 1077-3118 (electronic), 1520-8842.


Eichenberger:1972:NUO


Eidinoff:1948:STH


Elder:1985:SAC


Elfkky:2014:PSR


Ellis:1960:ROA


England:2007:JPN


Emmi:1990:SPF

[F. Emmi, L. J. Matienzo, D. C. VanHart, and J. J. Kaufman. Sensitivity of plasma fluorinated polyimide and
REFERENCES


REFERENCES


[A] A. S. Eve. LXXV. The properties of radium in minute quantities. Philosophical Magazine (6), 9(53):708–712, 1905. CODEN PHMAA4. ISSN 1941-5982 (print), 1941-5990 (electronic). URL http://www.tandfonline.com/doi/abs/10.1080/14786440509463320. Ernest Rutherford added a note at the end of this paper; it is the only 'joint' work by them, despite their lifelong friendship.


REFERENCES


REFERENCES


REFERENCES

Feather:1979:SEA

Feilden:2011:MWL

Frederick-Frost:2017:LMH

Ferroni:2000:EMR

Figurovskij:1960:SBG

Fujino:1999:SIB
Y. Fujino, Y. Igarashi, S. Yamaura, N. Suzuki, and K. Iimura. Study of interdiffusion between thin Y−Ba−Cu−O films and MgO substrates by applying Rutherford backscattering spectrometry combined with scanning tunneling microscopy.
REFERENCES


French:1985:NBC


Flaig:2017:PER


Fleck:1957:FSB


Fehl:1992:SUM


Flower:1970:ERE


REFERENCES

content/329/1576/1. Lecture delivered at Christchurch, New Zealand on 9 September 1971.


REFERENCES


REFERENCES

(106)


Garber:1981:BRS

Grecu:2000:RBS

Geake:1961:RM

Geake:1962:JNA

Gearhart:2014:FHE

Gearhart:2014:OFH

Geddes:2016:WHB
[Ged16] John Geddes. Why Harriet Brooks fits the bill: A pioneering physicist, Brooks wrote that a woman ‘has the right to the practice of her profession’. Maclean’s, ??(??):??, March
REFERENCES


Geiger:1938:LLR


Geiger:1938:MRM


Genet:1995:DUR


George:1938:LRO

[A. George. Lord Rutherford ou l'alchimiste. (French) [Lord Rutherford or the alchemist]. *La Revue de France*, ???(??): 525–533, ??? 1938.

Geiger:1910:LNP


Gagnon:1991:RTA

[G. Gagnon, A. Houdayer, J. F. Currie, and A. Azelmad. Rapid thermal annealing effect on near-surface stoichiometry of GaAs by heavy-ion Rutherford backscattering. *Journal of*
REFERENCES

_Gibb:2017:YDC_


Giudice:2012:BSL


Guerra:2006:EFD


Guerra:2012:DAR


Geiger:1909:DRP

Hans Geiger and Ernest Marsden. On a diffuse reflection of the $\alpha$-particles. *Proceedings of the Royal Society of London. Series A, Containing Papers of a Mathematical and Physical Character*, 82(557):495–500, July 31, 1909. ISSN 0950-
REFERENCES

1207 (print), 2053-9150 (electronic). URL http://rspa.royalsocietypublishing.org/content/82/557/495.


REFERENCES


Garbarino:1973:RSE


Hartcup:1984:CA


Hahn:1962:SRP


Hahn:1967:MER


Hahn:1967:OHS


Harker:1907:SSC


Harteck:1938:EAL

REFERENCES

8, 1938. CODEN ANCEAD. ISSN 0044-8249 (print), 1521-3757 (electronic).


REFERENCES


[Hei34] Werner Heisenberg. Considérations théoriques générales sur la structure du noyau. (French) [General theoretical considerations of the structure of the nucleus]. In Cockcroft et al. [CCJ34], pages 289–335. LCCN ????. Publiés par la commission administrative de l’institut.


Herron:1977:RNA


Heron:1984:ARB


Herrmann:2001:BRR


Herrmann:2001:BRS


Hessenbruch:2000:RER

REFERENCES


REFERENCES


<table>
<thead>
<tr>
<th>Reference</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS89:PFA</td>
<td>Otto Hahn and Fritz Strassmann. Proof of the formation of active isotopes of barium from uranium and thorium ir-</td>
</tr>
</tbody>
</table>

[Hazen:2010:GIS]


[Hubisz:2001:BRR]


[Hubisz:2013:MBR]


[Hughes:1990:BAM]


[Hughes:1993:RCC]


[Hughes:2000:AMN]

Hughes:2008:WKS


Hughes:2012:RRO


Hamm:1984:SIG


Huang:1992:URB


Hey:1996:EM


Hwang:1982:ALP

REFERENCES

APPLAB. ISSN 0003-6951 (print), 1077-3118 (electronic), 1520-8842.


[Ish83] Kouichirou Ishibashi. Study of the uniformity and stoichiometry of CoSi2 films using Rutherford backscattering spec-

**Ichihara:2009:HRR**


**Jacobs:1972:LR**


**Jaffe:1971:MNE**


**Jaffe:1972:MNE**


**Jaki:1979:RBW**


**Jarlskog:2008:LRN**

REFERENCES

iop.org/1742-6596/136/i=1/a=012001. Presented at the XXIII Conference on Neutrino Physics and Astrophysics.


 REFERENCES

  Jenkin:2011:AEM


  Jorgensen:2016:SGSa


  Joly:1913:LAP


  Kaempert:1936:UTS

  [Kae36] Waldemar Kaempfert. Ultimate truths are sought in the atom. scientists, in their efforts to smash it, are shattering many of their old ideas as they near the rock bottom of the universe. New York Times, ??(??):SM6, March 24, 1936. CODEN NYTIAO. ISSN 0362-4331 (print), 1542-667X, 1553-8095. URL http://search.proquest.com/hnpnewyorktimes/docview/101867279/.

  Kaempfert:1939:RWC


  Kaempfert:1948:RRB

Kapitza:1966:RLRa

Kapitza:1966:RLRb

Kapicy:1973:RUU
P. L. Kapicy. Rezerford | ucenyj i ucitel' : k 100-letiju so dnija rozdenija. (Russian) [Rutherford | scientist and teacher: the 100th anniversary of his birth]. Nauka, Moscow, Russia, 1973. 211 pp. LCCN ???.

Kapitza:1973:RLR

Kapitza:1974:ETP

Katzir:2012:WKP
Shaul Katzir. Who knew piezoelectricity? Rutherford and Langevin on submarine detection and the invention of
REFERENCES

Katzir:2015:MWB


Kauffman:1986:FSE


Kay:1963:RRB


Karwacki:1993:MDF


Klockenkamper:2005:NSD

REFERENCES

Krusin-Elbaum:1987:OSR


Kent:1963:FS


Kozanecki:1991:RBL


Kramers:1923:ABT


Kuhn:1967:SHQ


Kim:2002:LCH

REFERENCES


REFERENCES


[Kra14b] Michael Krause. Dalton, Thomson, Rutherford, Bohr. In *CERN: how we found the Higgs boson* [Kra14a], chapter 5,
REFERENCES


REFERENCES


LaRose:2009:HRR


Lansaaker:2014:CGN


Liau:1980:SSO


Lind:1940:BRR


Livesey:1962:KRP


Liu:1997:CSN

REFERENCES


REFERENCES

Lorenz:1988:BBB

Lovell:1975:PMS

Lovell:1976:PMB

Lowood:1979:ERB

Lorentz:1923:AER


Stefan Lüders. Tonspurerhaltung unter Medientransformation: Ausarbeitung zum Tondokument aus dem Jahr 1931 Verleihung der Ehrendoktorwürde an Ernest Rutherford durch Max Born an der Universität Göttingen. (German) [Drafting the sound document from 1931. honorary doctorate for Ernest Rutherford by Max Born at the University of Göttingen]. Report, Universität Göttingen, Göttingen,
REFERENCES


Malley:1971:DBP


Mann:1976:LRG


Mantri:1977:SAE


Mancini:1982:RBA


Marsden:1938:ERO


Marsden:1954:RML


Marcley:1961:ADP

REFERENCES


McGee:1984:RML


Masse:1990:DCP


McKown:1962:GAE


Moseley:1913:RXRb


Moseley:1913:RXRa


McDayter:1967:GBB

is a reasonably accurate 83-frame comic strip on the history of the building of the atomic bomb, with Leo Szilard as the central figure of the story.


Moseley:1911:RAP


Makower:1912:PMR


Millikan:1913:SBR


Millikan:1938:LRN


Milsted:1995:EGM


Hess:2007:BEN

REFERENCES


REFERENCES


Moore:1966:NBM


Moon:1974:ERA


Moon:1978:RML


Moralee:1974:HYC


Morrison:1975:RML

[ Mor75] A. B. Morrison. Rutherford Memorial Lecture. The philosophy and technology of drug assessment in Canada. The Cana-
REFERENCES

dian veterinary journal. La revue vétérinaire canadienne, 16 (9):247–256, September 1975. ISSN 0008-5286.

Morgantaler:1984:MAT


Moseley:1912:NBP


Moseley:1912:RMO


Moseley:1913:AHP


Moseley:1913:BRE

REFERENCES


REFERENCES

Meyer:1937:FTL


Murrell:2001:AHC


Murray:2013:MDL


Navarro:2006:EAD


Norton:1984:KOO


Nakajima:2007:SOO


REFERENCES


[Nakajima:2013:SSB]


[Nakajima:2010:OSS]


[Norton:1979:ASS]


[Nakajima:2008:OMO]


REFERENCES

September 1964. CODEN AJPIAS. ISSN 0002-9505 (print), 1943-2909 (electronic).


REFERENCES


Mark L. Oliphant. The two Ernests — II. Physics Today, 19(10):41–51, October 1966. CODEN PHTOAD. ISSN
157

REFERENCES


O'Shea:1971:ERH


O'Shea:1972:ERH


PaetzgenSchieck:2015:KNR


PaetzgenSchieck:2015:RSA


Partyka:1998:XRD

REFERENCES


REFERENCES


REFERENCES


[Pol60] L. S. Polak. Die Entstehung der Quantentheorie des Atoms (Das Rutherford–Bohr sche Atommodell). (German) [The emergence of the quantum theory of the atom (the Rutherford–Bohr atomic model)]. In *Sowjetische Beiträge zur Geschichte der Naturwissenschaft*. (German) [Soviet contributions to the history of natural science] [FH60], pages 226–242. LCCN Q125 1960. DM-Ost 17.50.

James Chadwick, who was born 100 years ago this month, discovered the neutron in 1932. One of his research students remembers those heady days of nuclear physics in the 1920s and 1930s.


Ramage:1975:CDR

Raz:1963:BRJ

Rutherford:1901:NGR

Rutherford:1902:CRR

Rutherford:1902:NGR

Rutherford:1903:HERa
REFERENCES


1945-452X (electronic). URL http://www.ajsonline.org/content/s4-20/115/55.citation.


REFERENCES


[RC12b] Professor Ernest Rutherford, F.R.S. and James Chadwick, B.Sc. XX. A balance method for comparison of quantities of radium and some of its applications. *Proceedings of
REFERENCES


REFERENCES


Rayner-Canham:1990:PWN


Rayner-Canham:1992:HBP


Rayner-Canham:2004:RTD


Rayner-Canham:2005:HBC


Rutherford:1926:DES


**Rutherford:1913:RRC**


**Rutherford:1914:WSR**


**Rutherford:1914:SPR**


**Rutherford:1931:OR**


Reisenfeld:1971:RC


Reichelt:1979:PCF


Rennie:1986:RBS


Reuter:1981:SIM


Rezerford:1921:NSA


Rezerford:1923:IRJ


Rezerford:1924:BAC


REFERENCES


[Rez72] Ernest Rezerford. *Izbrannye naučnye trudy. (Russian) [Selected scientific papers]*. Nauka, Moscow, Russia, 1972. 532 pp.


[RG09a] Ernest Rutherford and Hans Geiger. Die Ladung und Natur des α-Teilchens. (German) [The charge and nature of the α-particle]. Physikalische Zeitschrift, 10(2):42–46, January 15,


tandfonline.com/doi/abs/10.1080/14786440609463550.

**Righini:1979:ATC**


**Riley:1970:SMP**

pii/S0140673670903004.

**Rittenhouse:1992:RES**


**Rutherford:1934:BHI**

ries A, Containing Papers of a Mathematical and Physical Character, 143(850):724–730, February 1, 1934. ISSN 0950-
royalsocietypublishing.org/content/143/850/724.

**Ruoff:1988:DID**


**Rutherford:1907:RUG**

[RL07] Ernest Rutherford and Max Levine. Radioaktive Umwandlun-
gen. (German) [Radioactive transformations], volume 21 of


[RMM+29] Sir Ernest Rutherford, O.M., Sir Charles Martin, F.R.S., Professor Paul A. Murphy, Dr. J. A. Arkwright, F.R.S., J. E.
REFERENCES

Barnard, F.R.S., Dr. Kenneth M. Smith, Dr. W. E. Gye, Professor J. C. G. Ledingham, F.R.S., Dr. R. N. Salaman, Professor F. W. Twort, Dr. C. H. Andrewes, Captain S. R. Douglas, F.R.S., Dr. Edward Hindle, Dr. W. B. Brierley, and Professor A. E. Boycott, F.R.S. Discussion on “ultra-microscopic viruses infecting animals and plants.”. Proceedings of the Royal Society B: Biological Sciences, 104(733):537–560, May 4, 1929. CODEN PRSBC7. ISSN 0950-1193 (print), 2053-9185 (electronic).


REFERENCES


REFERENCES


REFERENCES


[R] Rutherford:1908:LAR


[R] Rutherford:1908:NP


[R] Rutherford:1909:NPS


[R] Rutherford:1909:NPR


[R] Rutherford:1909:NAP

REFERENCES


[R13a] Ernest Rutherford and Harold Roper Robinson. Über die Masse und die Geschwindigkeiten der von den radioaktiven Substanzen ausgesandten α Teilchen. (German) [On the mass and speed of α particles emitted from radioactive substances]. *Sitzungsberichte der Kaiserlichen Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse*, 122(9):1855–1884, December 4, 1913. CODEN SWWPAX. ISSN 0376-2629. URL http://tinyurl.com/h4g4c5b.


J. Räisänen, E. Rauhala, J. M. Knox, and J. F. Harmon. Non-Rutherford cross sections in heavy ion elastic recoil spec-
REFERENCES

187


[RS02j] Ernest Rutherford, M.S., D.Sc. and Frederick Soddy, B.A. (Oxon.). The radioactivity of thorium compounds. I. An
REFERENCES


Rutherford:1902:RTCc


Rutherford:1902:RTCd


Rutherford:1903:LCR


Rutherford:1903:LRC


Rutherford:1903:RU

[RS03c] Ernest Rutherford, M.A., D.Sc. and Frederick Soddy, M.A. The radioactivity of uranium. Philosophical Magazine (6), 5


L. Rebouta, J. C. Soares, M. F. da Silva, J. A. Sanz-García, E. Diéguez, and F. Agulló-López. Lattice site location of

Richtmyer:1927:ECC


Rutherford:1909:XDD


Rubinin:1997:NBP


Russell:1937:MAL


Russell:1951:LRM


REFERENCES


[Rut97b] Ernest Rutherford, M.A. A magnetic detector of electrical waves and some of its applications. *Philosophical Transactions of the Royal Society A: Mathematical, Physical, and Engineering Sciences*, 189(??):1–24, January 1897. CODEN PTMSFB. ISSN 1364-503X (print), 1471-2962 (electronic).


REFERENCES


[Rut00g] Ernest Rutherford, M.A., B.Sc. I. A radio-active substance emitted from thorium compounds. *Philosophical Magazine (5)*, 49(296):1–14, January 1900. CODEN PHMAA4. ISSN
REFERENCES


[Rut01b] Ernest Rutherford. Einfluss der Temperatur auf die Emnanationen radioaktiver Substanzen. (German) [Influence of temperature on the emanations of radioactive substances]. *Physikalische Zeitschrift*, 2(?):429–431, ??? 1901. CODEN PHZTAO. ISSN 0369-982X.


REFERENCES

com/zsjq72y; http://www.biodiversitylibrary.org/page/10745153.


[Rut02f] Ernest Rutherford, M.A., D.Sc. VIII. The existence of bodies smaller than atoms. *Transactions of the Royal Society of Canada*, 8(Section III):79–86, May 27, 1902. CO-
REFERENCES


[Rut03f] Ernest Rutherford. XV. The magnetic and electric deviation of the easily absorbed rays from radium. *Philo-
REFERENCES


REFERENCES

199


Ernest Rutherford. Succession of changes in radioactive bodies, 1904.


REFERENCES


REFERENCES


Rutherford:1905:XCC


Rutherford:1905:XST


Rutherford:1905:BLS


Rutherford:1906:ARA


Rutherford:1906:DID

REFERENCES

---

**Rutherford:1906:MED**


**Rutherford:1906:PPR**


**Rutherford:1906:RTa**


**Rutherford:1906:RTb**


**Rutherford:1906:RRC**


**Rutherford:1906:SPR**


**Rutherford:1906:EES**

[Rut06i] Ernest Rutherford. Über einige Eigenschaften der \(\alpha\)-Strahlen des Radiums. (German) [On some properties of \(\alpha\) rays of
REFERENCES


REFERENCES

Rutherford:1907:RGR


Rutherford:1907:LPO


Rutherford:1907:ORa


Rutherford:1907:ORb


Rutherford:1907:PRA


Rutherford:1907:SCA


Rutherford:1907:MGR

[Rut07g] Ernest Rutherford. Über Masse und Geschwindigkeit des von Radium und Aktinium ausgesandten α-Teilchens. (German)
[On the mass and velocity of α-particles emitted by radium and actinium]. *Jahrbuch der Radioaktivität und Electronik*, 4 (??):1–6, ???? 1907. CODEN JAREAS. ISSN 0368-1289.

**Rutherford:1907:VEP**


**Rutherford:1907:PORb**


**Rutherford:1907:VVE**


**Rutherford:1907:PORa**


**Rutherford:1908:CNA**

REFERENCES


[Rut08c] Ernest Rutherford. Die Ladung und Natur des α-Teilchens. (German) [the charge and nature of α particles]. *Jahrbuch der Radioaktivität und Electronik*, 5(??):408–423, 1908. CODEN JAREAS. ISSN 0368-1289.


the Manchester Literary and Philosophical Society in February 1908. According to [Coh88, page 29], “the definitive paper on the Geiger counter was presented to the Royal Society on June 18, 1908 and published in [RG08a].”.


REFERENCES


[Rut10a] Ernest Rutherford. Existieren die Atome, Molekeln und Elektronen?. (German) [Do atoms, molecules and electrons exist?]. *Umschau*, 14(??):341–344, ???. 1910.

[Rut10b] Ernest Rutherford. Existieren die Atome, Molekeln und Elektronen?. (German) [Do atoms, molecules and electrons exist?]. *Umschau*, 14(??):369–372, ???. 1910.


REFERENCES

Rutherford:1910:RSN


Rutherford:1910:TLP


Rutherford:1910:XAR


Rutherford:1911:CTR


Rutherford:1911:ISR

Ernest Rutherford. *An international standard of radium*. Akademische Verlagsgesellschaft, Leipzig, Germany, 1911. ???. pp. LCCN ???

Rutherford:1911:RTb

REFERENCES


[Rut11j] Professor Ernest Rutherford, F.R.S. The scattering of the $\alpha$ and $\beta$ rays and the structure of the atom. *Proceed-
REFERENCES


[Rut12e] Ernest Rutherford. XCVIII. On the energy of the group of β rays from radium. Philosophical Magazine (6), 24


REFERENCES

abs/1913Nature.92.347R; http://www.nature.com/nature/journal/v92/n2299/pdf/092347b0.pdf.


[Rut13g] Ernest Rutherford. Radioaktive Substanzen und ihre Strahlungen. (German) [Radioactive substances and their radiations], volume 2 of Handbuch der Radiologie. Akademische Verlagsgesellschaft, Leipzig, Germany, 1913. ix + 642 pp. LCCN ???.


REFERENCES

URL  http://adsabs.harvard.edu/abs/1913Natur..91..424R;  http://www.nature.com/nature/journal/v91/n2278/pdf/091424a0.pdf.


REFERENCES

[Rut14g] Sir Ernest Rutherford. XXXI. The spectrum of the penetrating $\gamma$ rays from radium B and radium C. *Philosophical Magazine (6)*, 28(164):263–273, August 1914. CODEN PHMAA4. ISSN 1941-5982 (print), 1941-5990 (electronic).


[Rut15a] Ernest Rutherford. Exhibition of fine crystals of autunite. *Proceedings of the Manchester Literary and Philosophical Society (Manchester Memoirs)*, 59(??):xvii, March 9,

**Rutherford:1915:EPC**


**Rutherford:1915:HGJ**


**Rutherford:1915:MCS**


**Rutherford:1915:OSG**


**Rutherford:1915:PWD**


**Rutherford:1915:REAb**

Rutherford:1915:REAc


Rutherford:1915:REAa


Rutherford:1915:URa


Rutherford:1915:URb


Rutherford:1915:URc


Rutherford:1915:CMEa


Rutherford:1915:CMEb

REFERENCES


REFERENCES


[Rut19g] Professor Sir Ernest Rutherford, F.R.S. LIII. Collision of $\alpha$ particles with light atoms. III. Nitrogen and oxygen atoms.


Ernest Rutherford. Über die Kernstruktur der Atome: *Baker-Vorlesung. (German) [The nuclear structure of atoms: Baker Lecture]*. S. Hirzel, Leipzig, Germany, 1921. iii + 35 + 4 pp. LCCN ????. Translation to German by Else Norst of [Rut20g].

REFERENCES


Rutherford:1922:DE


Rutherford:1922:EMa


Rutherford:1922:EMb


Rutherford:1922:IME


Rutherford:1922:Ra


Rutherford:1922:Rb

REFERENCES


REFERENCES


230. CODEN ???. ISSN 0883-1610 (print), 2330-5908 (electronic).


REFERENCES


Professor Sir Ernest Rutherford, F.R.S. The natural and artificial disintegration of the elements. *The Scientific
REFERENCES


REFERENCES


[Rut25h] Sir Ernest Rutherford. [trip report]. *Sydney Morning Herald, ??*(??):??, 1925. Written sometime between July and December 1925, and cited in [Wil83a, page 462], as “one of the most monumentally dull pieces of writing that anyone could imagine — indeed it seems almost immature, and might have been written by a rather uninteresting child of fifteen.”.


REFERENCES


DEN PHMAA4. ISSN 1941-5982 (print), 1941-5990 (electronic). URL http://www.tandfonline.com/doi/abs/10.1080/14786440908564361. Cited in [Wil83a, page 441] as ‘a great paper’. Wilson (page 559) later notes that this paper inspired George Gamow to his prediction of the quantum tunneling effect in 1929 (credit also goes to Edward Condon and Ronald Gurney who wrote two papers in 1928 on that idea, and to Robert Oppenheimer, who published a paper on that topic five months before those of Condon and Gurney).


REFERENCES


REFERENCES

Rutherford:1929:NPS


Rutherford:1929:OAA


Rutherford:1929:PR

[Rut29h] Ernest Rutherford. Penetrating radiations. The Engineer, 147(?):413, April 1929. CODEN ENGIAL. ISSN 0013-7758.

Rutherford:1929:RRB


Rutherford:1929:APSa


Rutherford:1929:APSb

REFERENCES

URL http://adsabs.harvard.edu/abs/1929RSPSB.104..97.; http://rspb.royalsocietypublishing.org/content/104/729/97.


REFERENCES


[Rut31c] Lord Ernest Rutherford. α-Teilchen grosser Reichweite und die Entstehung der γ-Strahlen. (German) [α particles and long range origin of γ rays], volume [Jg. 82.] 1931, Fachgr. II, Nr 19, 1931 of Sonderdrucke aus den Nachrichten von der Gesellschaft der Wissenschaften zu Göttingen: Mathematisch-physikalische Klasse. Weidmann, Berlin, Germany, 1931. 248–251 pp. LCCN ????

[Rut31d] Lord Ernest Rutherford. α Teilchen grosser Reichweite und die Entstehung der γ Strahlen. (German) [Long

Rutherford:1931:APSb


Rutherford:1931:HP


Rutherford:1932:APT


Rutherford:1932:EFR

Ernest Rutherford. Erinnerungen an die Frühzeit der Radioaktivität. (German) [Memories of the early days of radioactivity]. Zeitschrift für Elektrochemie, 38(7 (or 8a??)): 476–480, July 1932. CODEN ZEELAI. ISSN 0372-8382.

Rutherford:1932:BF

REFERENCES


REFERENCES


REFERENCES


REFERENCES


[Rut35a] Ernest Rutherford. [letter to the editor]. *The Times [London, UK]*, ??(??):??, May 1, 1935. ISSN 0140-0460, 0956-1382. Cited in [Wil83a, page ], and on the subject of the claims against the USSR for the cost of Peter Kapitza’s laboratory
equipment that was to be shipped from Cambridge to him in the USSR, where he was being denied the right to travel abroad.

Rutherford:1935:R


Rutherford:1935:RON


Rutherford:1935:AP


Rutherford:1935:NRT


Rutherford:1935:ERP


Rutherford:1935:ERPb


Rutherford:1935:ERPc

REFERENCES


Ernest Lord Rutherford. *Radioaktivität und Atomtheorie*. (German) *Radioactivity and atomic theory*. ???, ???, 1936. 17 pp. LCCN ????


Ernest Rutherford, President of the Academic Assistance Council. A society for the protection of science and


REFERENCES

Rutherford:1937:THEb


Rutherford:1937:RAT


Rutherford:1938:FYP


Rutherford:1938:NAC


Rutherford:1938:JMI


Rutherford:1938:TMa

meeting of the Indian Science Congress, and delivered by Sir James Hopwood Jeans. See also [Ano38b].

**Rutherford:1938:TMb**


**RutherfordofNelson:1938:THE**


**Rutherford:1965:Fa**


**Rutherford:1965:Fb**


**Rutherford:1966:PH**


**Rutherford:1966:DRU**


**Rutherford:1966:NA**


**Rutherford:1970:DSA**


REFERENCES


[Rutxx] Ernest Rutherford. *Forty Years of Atomic Theory*. ?????, ?????, 20xx. LCCN ????


Sadana:1981:TEM


Sarton:1927:MNE


Saris:1979:ACI


Semrad:1986:AMS


Selmke:2013:PRS


Schlundt:1931:BRR

Herman Schlundt. Book review: *Radiations from Radioactive Substances*, (Rutherford, Sir Ernest; Chadwick, James; Ellis,
REFERENCES


Schuster:1933:BF


Schrodinger:1957:STM


Schwinger:1958:SPQ


Schwarz:2013:ABM


Schwarcz:2015:RCH


Shih:1991:TFI

D.-Y. Shih, C.-A. Chang, J. Paraszczak, S. Nunes, and J. Cataldo. Thin-film interdiffusions in Cu/Pd, Cu/Pt,


REFERENCES


G. Scharff-Goldhaber. Marie Curie’s influence on science and on society. Web document., August 1985. URL


Shea:1983:OHR


Sherwin:2017:WAA


Shire:1972:RNA


Shire:1988:LLE


Shoenberg:1982:RML

REFERENCES


REFERENCES

[Skulina:1989:CAG]

[Seaborg:1990:EBU]

[Slotte:2000:IST]

[Slaughter:2013:HMM]

[Smeltzer:1997:RRR]

[Smeltzer:1997:LRR]
REFERENCES


Smith:1937:ORH


Schrodinger:1935:SHTa


Schrodinger:1935:SHTb


Stygar:1991:ORS


Staroselskaya-Nikitina:1967:ER


Shao:2005:MAA


Snow:1958:ARB

[Sno58] C. P. Snow. The age of Rutherford: The birth of the atom. *Atlantic Monthly*, 102(??):76–80, November 1958. ISSN 1072-
REFERENCES


[Sod02] Frederick Soddy. An account of the researches of Professor Rutherford and his co-workers. McGill University Magazine, ??(??):??, December 1902.


is the paper, sent from the Physical Chemistry Laboratory at the University of Glasgow, that introduced the concept of nuclear isotopes. From page 400: “The same algebraic sum of the positive and negative charges in the nucleus, when the arithmetical sum is different, gives what I call ‘isotopes’ or ‘isotopic elements’, because they occupy the same place in the periodic table. They are chemically identical, and save only as regards the relatively few physical properties which depend upon atomic mass directly, physically identical also.”.


REFERENCES


APPLAB. ISSN 0003-6951 (print), 1077-3118 (electronic), 1520-8842.


REFERENCES


REFERENCES


REFERENCES


[Tizard:1946:RML]

[Tanner:2011:RL]

[Touboltsev:2003:ELL]

[Thevuthasan:1999:RBC]

[Tammen:1995:IIS]

[Todd:2014:BHL]


REFERENCES


REFERENCES


Antonius van den Broek. Die Radioelemente, das periodische System und die Konstitution der Atome. (German) [The radio elements, the periodic system, and the constitution of atoms]. *Physikalische Zeitschrift*, 14(1):32–41, January 1913. CODEN PHZTAO. ISSN 0369-982X. URL http://hdl.handle.net/2027/njp.32101054770894?urlappend=%3Bseq=70.


L. J. van IJzendoorn and J. P. W. Schellekens. Si-depth profiling with Rutherford backscattering in photoresist layers:
REFERENCES

Valdecasas:2014:WBN


Volterra:1912:LDC


Vucinich:1986:BRK


Voinov:2009:SRC


vonWeizsacker:1935:TKG


Wang:1996:DLS

Wang:1986:SII


Wu:2002:DDT


Weiner:1970:PGD


Weiner:1972:MNP


Weiner:1985:MNP


Weinberg:2011:PPR

REFERENCES


REFERENCES


Wilson:1983:RSG


Wilson:1983:CAS


Wilkins:2015:ORP


Williams:2017:CHR


Winton:1994:CXR


held 7–9 July 1971 in honor of the centenary of the birth of Ernest Rutherford.


[Yuhara:1992:PTS] Junji Yuhara. Phase transition of the Si(111)–Au surface from $\sqrt{3} \times \sqrt{3}$ to $5 \times 1$ structure studied by means of the low-energy electron diffraction, Auger electron spectroscopy, and Rutherford backscattering spectroscopy techniques. *Journal of Vacuum Science & Technology A: Vacuum, Surfaces, and

Ziegler:1974:DBI


Zhou:2012:DPT


Ziman:1969:RMLa


Ziman:1969:RMLb