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

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15 November 2016
Version 2.18

Title word cross-reference

(100) [Tho84]. 1.0 − μ [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 [RR95]. 32
[RRKH94]. 4 [MDJF83, ZB74]. o [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]. a
[YKH+84]. α [Fea77, GM09, GF10, GR12, Hei68, LMC97, OaHNM98, Rut05a,
Rut05c, Rut05k, Rut05n, Rut05m, Rut06i, Rut06c, RH06a, Rut06h, RH06b,
Rut06m, Rut06l, Rut06j, Rut07g, Rut07h, Rut07j, RG08d, RG08b, RG08a,
RG08e, Rut08c, Rut08d, Rut08f, RR08e, RG09b, RG09a, RR09b, RR09a,

1
Rut09f, RR09d, RG10, Rut10f, Rut10g, Rut11i, Rut11j, RN13, RR13a, RR14, Rut19b, Rut19e, Rut19f, Rut19g, Rut19h, RC21a, Ru21e, RC22, Ru23m, Ru23n, Ru23o, Ru24l, RC25, RC27, Rut27l, Rut27a, Rut27b, Rut27c, Ru27d, Ru27h, RWL31a, RWL31b, Ru231d, Ru231e, RL33, RWLB33, RK34, Ru66b, Ru66a, Ru10a, Ru12, WR31, vdB07. $\approx 2$ [KSKF93]. $\beta$ [Hei68, Mos12a, MR14, Rut05n, Rut11i, Rut11j, Rut12b, Rut12c, Rut12e, Rut12h, RR13f, Rut14k, RRR14, Rut14i, Rut14h, Rut66b, Rut12]. $c$ [IOI+11]. csc$^4(\theta/2)$ [Ram75]. $\gamma$ [Cha12, CK33, MM12, MR14, Rut04f, RB05c, Rut12b, Rut12c, Rut12h, RR13b, RdCENdCA13, RR13e, Rut14k, RdCENdCA14b, RRR14, RdCENdCA14a, Rut14i, Rut14g, Rut14h, Rut14f, Rut31d, RE31, Rut31c, RB32, Rut33i]. $k$ [Bar85]. $m$ [IOI+11]. $n$ [Wuy91]. $\sqrt{3} \times \sqrt{3}$ [Yuh92]. $Z$ [MDJF83].

- [OI+11, Rut66b]. -Al [OaNHM08]. -Compounds [Adl97]. -GaAs [Wuy91]. -graphite [ESRDV84]. -Particle [Foa77, RG08d, RR09b, 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 [Bre97]. 22 [Bad67, Bad85b, CCJ+34]. 2nd [Rut33h].

4-vinylpyridine [HW92]. 40 [RRKH94]. 41 [Hwa83]. '45 [Ree06]. 4H [ZWJ+02].
6H [KIS⁺89]. 6H-SiC [KIS⁺89]. 6th [LRdB⁺23].

7059 [DJBW83].

Alpha-Rays [RWWW30]. 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]. among
[Gri09, Wil83b]. amorphous [ATS86, REJ86]. Amount [Rut03a].
Amplitude [Mar72, Rut16e]. Analogy [Gre07, Lor88, SC13]. Analyses
[MMKS+80]. Analyses [Mon66, Sen87, TGDS99, Wil83b]. Analysis
[And90, Bra61, FLP+89, Hwa82, HHK87, LHB+09, MD69, MB90, RWWW30,
RWL31a, RWL31b, RL33, RWLB33, TGDS99, WVCW76, BJW97, BCM13,
BP93, Bra98, CGL+94, Cat93, CCR+03, DMV+96, HV84, HHAMS93,
KLL+90, KohM94, LHNG14, LGF+99, Man82, MBS+04, MMKS+80, Par96,
Phi83, PMCF+06, RMM+13, Reu81, RR13d, RR13f, SHA09, Sha87b, SN05,
STB+01, Sin93, Wuy91, WZJ+02, Hwa83, RR13b, RR13e]. analytical
[WM88]. anatomy [Sie11]. Ancestry [Ano06]. Anchor [Opp64]. Andrade
[Aro65b, Opp64]. angle [DHS97, Kru75, Man77, WZS+91, vBD89]. angles
[GM13]. Angular [RR95]. Animals [RMM+29]. anion [HW92].
Anmerkung [Rut05j]. annealing [BJW97, Bha82, CYM+03, DJBW83,
GHCA91, LxW99, Lu87, MBS+04, Sad81]. annihilation
[AAPN06, CYM+03, FTT96, vdK89]. Anniversaries [Bar71, Kis82].
Anniversary [Ano12a, Rut27e, Rut27j, Rut28a, Rut28g, Rut29j, Rut29k,
Rut30a, Rut30h, Rut31a, Rut31e, Sch13, Kap73, Rut12a, VRWB12].
Annotated [Kay63]. Annular [RWLB33]. anodic
[SHA87b, TF89]. anodized [Eld85]. Anomalous [Rut19h, Rut10a]. antecedents
[Fra05]. Anticipating [Gus12]. Anxiéte [dB70]. anxiety [dB70]. Apart
[Ano32b]. Apparatus [BR16, Ear66, LEM65, Mar61, SBE086, Ter38, Wil74, Mar61].
appeal [Rut34m]. Appl [Hwa83]. Application
[CLZ99, KT84, DJA+04, DBvdV87, Rut36a]. Applications
[Her84, Moo78, Rut96b, Rut97b, RC12b, RMM+13, RC12a, Rut32a].
Applied [Wer23, Ano23b]. applying [FY+99, IFIS94]. appreciation
[Har01]. Approximation [Dem03]. April [LRdB+23]. APS [Ano10].
Arbeit [Rut05]. Arbeiten [Hou30]. arc [Rut36a]. archives [Car98].
archivi [Car98]. argon [BVI88, GR89, Sku89]. argon-bombarded [BVI88].
arranged [NP38, NP40]. Arthur
[dR92, Coh88, Coh89, Coh91, Coh92, Fos49]. Artificial
[GLR06, GLR12, GT95, Rut22a, Rut22b, Rut22c, RC24b, Rut24k, RC29,
Rez25, RC21b, Rut24m, Rut33b, Rez23]. Arts [WH72]. Ascent
[Bro73a]. Aspect [Ell60]. Aspects [Rut07f, Rut27g, Buri3a]. Assembly
[EFKS96]. assessment [Mor75]. Assistance [Rut34h]. Assistant
[Kay63]. Association [Rut09e, Rut23p, Ano20a, Ano32b, Ano33b, Ano33c, RSWE27].
Aston [Dow08]. Astrophysics [Rig79]. asymmetries [CBZ+12].
Atmosphäre [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, Ful13, Gar81,
Gea62, Her72, Hug90, Kae36, Kra11, KH23, Lau37, Mon66, Nia98, Pod10b, RN04, Rut09b, Rut09c, Rut09g, 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, Moo74, Pol60, Rez21, Rom97, Row55, Row57, Rut11i, Rut14e, Rut24d, Rut27l, Rut33f, Rut12, Shi72, Soc20, Soc22, Soc04, Tre77a, dCAH64, Rut66c, Sei86, Stu85, Aro65b, Dys05, Opp64, Sen87, Tre76a.

Atom-Model [Wer23]. Atom-Powered [Ano33a]. Atom-Smasher [Ano37i, Lau37]. Atom-Theorie [Rut09b, Rut09c]. atoma [Rez21]. Atome [Rut10a, Rut10b, Rut21d, vdB13]. Atomes [LRdB+23, Pia24]. Atomic [Ano06, Boh63, Bur18, Dar56b, F.33, Gam29a, Jen11, Kow53, Kra12, Mon66, Mos14a, OaHNM98, Pei97b, PBFt83, Ree06, LFA+04, Rus56a, Rut09k, Rut23a, Rut23b, Rut23c, Rut23e, Rut23f, Rut23g, Rut23h, Rut23i, Rut23j, Rut25a, Rut25g, Rut26f, Rut27a, Rut27c, Rut27d, RAC+29, Rut30b, Rut30c, Rut30d, Rut30e, Rut32a, RCE+32, Rut33a, Rut35d, Rut37g, Rut70, Rutxx, Sie11, Soc49, Tre75c, Ano23b, Bai13, Boh87, Cat12, CK33, CCJ+34, Dar56a, Gam28, Gam29b, Har38, Hou30, IFSI94, LHNG14, Pae15b, Par96, Pol60, Ree15a, Res29, Res32, Rut25f, RC25, Rut26b, Rut26c, Rut26d, Rut26e, Rut33i, Rut33j, Rut36f, Rut36h, Soc13, Tab07, Mot63, Res28, Rut09b, Rut09c]. atomique [Mon66]. atomiques [CCJ+34]. atomism [Rut09d]. Atomistik [Rut09d]. Atomization [ERM95]. Atomkerne [Gam28]. atomkutatas [RA45]. Atommodell [Pol60]. atomnogo [Rez29, Rez32]. Atommye [Rez28]. Atomphysik [Har38]. Atoms [Ano32b, Cho01, Elf14, Pol60, Rut02f, Rut14a, Rut15i, Rut16b, Rut19a, Rut19e, Rut19f, Rut19g, Rut19h, 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]. audio [BC16]. Auger [Bau73a, Rut30f, Rut32c]. ausgesanden [Rut07g, RG09b]. ausgesandten [RR13a]. auspices [Ano12a, CCJ+34, VRWB12]. Australia [Jen85]. Authoritative [Kae39]. autobiography [Hah67b]. Autunite [Rut15a]. Avogadro [Lee98, Mur01, Stu00]. avril [LRdB+23]. Award [Ano08b, Ano09a, Ano36a, Ano46a]. awarded [Ano08g]. awards [Adl12]. azide [WVCW76].

B [Hay63, Ihd64, Raz63, Rut14g, Rut14f, Rut28b, See65, Tre75b, Tre76a, LMC97, MM12, RR13d, RR13f, RdCENdCA14b, RdCENdCA14a, RW25]. Ba [FIY+99, IFSI94, KKK+99]. Back [Bau73a, Rut30f, Rut32c]. Back-Scattering [Bau73a]. Background [Cro74c, NP38, NP40, Ree15b].

...
[backscatter][KKGW85, Sim82]. **Backscattering**

[CLZ99, ERM95, EMVK90, MKM+07, JBS12, LHB+09, LGA+06, NOSK08,
OaHNM98, LFA+04, SHCK96, ATS86, AAPN06, And90, Bar85, BJW97,
BP+06, BAC73b, BSS88, BHA82, BP93, BRAK84, BPSW91, BVI88, BUR86,
CGL+94, CAT93, CFMO12, CYM+03, CCR+04, Cle81, CSN+00, Con82,
CSN85, CBZ+12, DJA+04, DGC07, DMV+95, DJS97, DJBW83, ELD85,
EFKS96, ESDDV84, FGM+00, FOW83, FPL+89, FTFT6, FY+99, GHCA91,
GR89, GC00, Gro88, GRS+91, HV84, HHAMS93, HKH96, HNS+11, Her84,
HMA+90, HWA82, HWA83, ITY+09, IFSI94, Ish83, IOI+11, KBB93, KK+99,
KOH94, KVB+05, KSKF93, KIS+89, KY14, Kot91, KY11, Kath91,
LHNG14, LSD+01, LRF86, LDLM91, LIA80, LMC97, LXW99, MB+82,
MDJF83, MB90, MAN82, MCJK90, MBS+04, MMK+80, NJS+03, NF8+07,
NOH+10, NMSK13, Nor79, NGS+84, NOH92, NMSK13, NOH10, NMSK13.

**backscattering ion**[HKH96]. **backscattering/channeling**

[LCL+04, PHI83, TJRS03, WYV+99, WY3+02, WY+99, WCZ+02].

**Badash**

[Hei71, Oes70, SYZ+85, BRO66, FEA70, TRE77a, VUC86].

**Baker**

[RUT21d]. **Baker-Vorlesung** [RUT21d]. **Bakerian**

[CHA33, RUT04l, RUT05p, RUT20g].

**Balance** [RC12b, RC12a]. **balls** [LOR88].

**Banquetted** [ANO66e]. **Bariam** [HS89]. **Baron**

[ANO66b, BAD04b, BADXX, LOV75, EVA39a, EVA39b, M.39]. **barrier**

[GR089, KOT91, RR95]. **Barus** [D14, ANO12a]. **Based**

[BOH61, WMT01, NMSK13, ROT37a, ROT14]. **basic** [WEN53]. **Battered**

[ANO32b]. **BBC** [ANO23a]. **Be** [ANO6, ANO32a, ANO8a]. **beads** [LOR88].

**beam** [FLK92, HD+99, KKGW85, LSK+88, SML91, WVD+96]. **Beams**

[EMVK90, SWZ+95, YHS97]. **Bearing** [HOL30]. **beat** [DBE+85]. **became**

[REE15a]. **Becquerel** [BEL82, MON66, RM00b, GEN95, RM00a, RM01].

**Becquerel** [RM00b]. **Been** [RUT37b, ANO88]. **Before**

[BAD65, PRE65, BAD83, ROT33h]. **Began** [FW67]. **beginning** [COT10].

**behavior** [BHA82]. **behaviour** [MAK08]. **Being**

[BAD71, COH40, SWA40, EVE39, EVE13, RCO+54, ROT33h, KAY63]. **Beiträge**

[FH60]. **belief** [ANO32d]. **Believes** [ANO8a]. **beneath** [JAK79]. **BeO**

[PW83]. **Bericht** [ROT80b]. **Berlin** [HAR60]. **Bertrand** [ROT28b]. **Bertrand**

[AN16]. **Beryllium** [OKR35a]. **Bestrahlung** [HS93]. **Beta**

[BUR83, JEN00, MAL71, ROT15c, TRE76b, CAR98, WEN53]. **Bethe** [SCH58].

**between** [FY+99, IFSI94, RAD13, ROT04b, ROT05b, ROT14k, ROT14i, ROT29].

**Beyond** [SL90]. **Bibliography** [OLE81, LOW79]. **Bibliothèque** [MON66].
Biggest bilayer [PCK +08, SCP +91]. Bilayers [GC00].


dCA56, dCA58, Sno58, Kap73]. Birthday [HM31]. Bis [NOSK08, NOH +10].


Birks [Hbd64, Raz63, See65, Hay63]. Birth

dCA56, dCA58, Sno58, Kap73]. Birthday [HM31]. Bis [NOSK08, NOH +10].

Colleagues [Kle10]. Collected
[Ano64, Ar65a, Ar66, Bru64, Cha14a, Cha14b, Cha14c, Coc63, RC63, RC65, Seg62, Seg64, Seg66, Ano66e, Cha65, RC62]. Collection
[Ter38, RCO+54, Rut15d]. College [Rut37a, Rut14, Cla06]. Collider [Giu12].
Collision [Ano22, Rut19b, Rut21e, Rut10a, Rut19e, Rut19f, Rut19g, Rut19h].
Collisions [Rut19a]. Combination [Dav71a, MD69, FLP+89, WM88].
combined [DMV+96, FY+99, IFSI94, WVH+99, Wuy91].
Commemoration [Ano48]. Comment [RSWE27]. Comments [dR92].
Commission [CDE+31a, CDE+31b, CDE+31c]. Committee [NP38, NP40].
Communication [BC16, Kat15]. compact [DJA+04]. Company [Dav37].
comparaison [RC12a]. comparative [RS03d]. compared [TGDS99].
Comparison [RC12b, CCR85, RC12a, SSWB80b, Tab97, RB02a].
compensation [RC12a]. Complex [Ell60]. Composition
[BRR80, Eld85, Bra98, Cat93, FLP+89]. Compositional [ATS86, Sha87b].
compound [PBFt83]. Compounds
[Adl97, Rut00a, RS02c, RS02h, ESRDV84, Rut00g, Rut00b, Rut00c, Rut00e, Rut00f, RS02j, RS02i, RS02k, RS02l, WV07]. Comprehensive [WVD+96].
comprising [Rön58]. Computer [TJRS03]. Concentration
[Rut04c, MCJK90, Rut04d]. concentrations [PBFt83]. Concept [Wil64].
concepts [Lon03]. conceptual [Bur13a]. Concerning [Gor55, HS39].
concrete [Lor88]. condensation [RS02d, RS02e, RS03a, Rut09j].
conducting [MCJK90, Rut01e]. Conduction
[Rut99, Tho03, Tho06, TT33, TT69]. conductivity [Rön58, Rut00d].
Conference [Bir61, Fre12, Hay63, Raz63, Rut11a, Rut13c, Rut13d, AK15].
conferences [WH72, Wel90]. Cong [Rut05c]. Congress
[Str11, Ano38b, Rut38c]. connections [Cla13]. Connexion [Rut14k, Rut14i].
conseil [CCJ+34, LRdB+23]. Consensus [Jen00]. consequences [Pae15a].
Conservation [Ano32b]. Considérations [Hei34, Hei34]. Constant
[Mur01]. Constants
[CDE+31a, CDE+31b, CDE+31c, Rut14l, HKM+09, HW92, Rut14j].
Constituents [Tre71a]. Constitution
[Ano15, FR33, Gam30, Rut20g, Rut20e, Rut29i, Rut15m, Rut15n, vdB13].
Contact [GRS87, Kot91]. contacts [Gro89, Man82, Wuy91].
contemporanea [Seg76]. contemporary [Seg76]. contenus [RB06a].
Contest [Ano99]. continued [dR92]. contiunity [Oli84]. Contributing
[Hon03]. contribution [DMPA08]. contributions [Cla13, FH60].
Controversy [Jen00, Rut06g]. Convention [RSWE27]. conversion
[Rut11h]. convincing [Ram75]. Coolidge [RB15, RBR15, Rut17]. copper
[HV84, HHAMS93, PNFO88, RKL88]. copper-aluminum [HV84]. Corning
[DJBW83]. Corrections [CDE+31a, Poo52]. Correlation
[Wil83b, Win94, Bur86]. Correlations [SCP+91]. Correspondence
[Jen85, Tre77a, Bad74]. CoSi [DMV+96, Ish83]. Cosmical [Rut07f].
Cosmos [Ano32a]. Coulomb [Mar72, RR95]. Council [Rut34a]. counter
[Kor12]. counters [Lew79]. Counting [RG08a, RG08e, RG08c, RG09b].


Deadly [Har05]. Dear [Coh88, Coh89, Coh91, Coh92, Cam97, dR92]. Death [Ano37d, Ano37c, Ano37b]. debate [Rez29, Rez32]. debonding [RKL88].


Deflection [HBA77, Rut06c, Rut03b]. deflexion [GM13]. degradation [vIS89]. delivered [Ano12a, Rut12a, Rut33h, Rut36h, Rut37a, Rut14, VRWB12]. della [Car98].

Demonstrate [Gre07]. 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 [KEJ87, Bur86, Hwa82, Hwa83, TGP11]. Deposition [LFA+04, Sin93]. Depression [Wei70]. Depth [AAPN06, LRF86, LCL+04, PPA+02, TGP11, WCZ+02, ZCS+12, BSS88, IYT+09, KB93, PMCF+06, Rut74, SWZ+05, SLA+00, Wil83b, Win94, vIS89]. Depth-resolved [AAPN06]. depths [Rom97].

detect [Nav06]. Detected [Ano08a]. Detecting [BR16, Rut15f]. detection
[Kat12, SHA109, Sin93]. Detector [Hes00, Mur13, Rut96b, Rut97b, Rut96a].
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]. Developed [RKL88]. Developing [Zim69a, Zim69b].
Development [All64, Bra61, GR87, Kae39, TCZY97, Tre71b, Fra05, Har38,
Rut36b, Rut36i, Rut37c]. Developments [Boh61]. Deviable [RG02b].
deviation [Rut03f]. devices [CBZ+12]. Devons [Hug08, Kay63]. Dfl
[Bat72]. Diagnosed [MKM+07]. diagnostic [HFD+99, RFF+01, YHS97].
diagnostics [DBvdV87, SML91]. diaphragm [Rut16e]. dichroic
[RMM+13]. dictionary [DG99]. did [Bat72, Jen11]. didn't [Jar08]. Died
[Ano19, Fle57]. Dies [Ano37, Lan37]. diferentes [dAMxx]. difference
[Rut04b, Rut05b]. Differences [RT09]. Different [Elf14, BP93, dAMxx, RBR15, SSWB88a].
diffraction [BBR80, CYM+03, CCR85, DHS97, HV84, KKK+99, KSKF93,
PAF+98, SDD+98, FW+99, YV+99, Yu+92]. diffuse [GM09]. Diffusion
[HKM+09, SER+01, MBS+04, TMJ+99]. Dimensional [BCM13].
dimensions [Bar83]. Dinner [Ano09a]. dioxide [LRF86]. Dirac
[Lak96, Sch58]. Direct [Cat93]. Direction
[BR16, Coo63, Aro66, Rut15d, Seg62, Seg64, Seg66]. Discharge
[Coo13, Rut98, Rut01f, Rut01a, Rut08e]. Discharges [Rut94, Rut5].
Discovered [Ano19]. Discoverer [MM03, RCRC04]. discoveries
[Pae15a, Seg76, Seg80a]. Discovering [Ano09, Tem89]. Discovery
[Ano09a, Ano22, Ano32c, Ano60b, Ano66, Dar56b, FW67, Gen95, Gra64,
GLR06, GLR12, GT95, HHK87, Mal71, Mon66, Rog13, Rom64, Rut66b,
Bad83, Car98, Cla13, Dar56a, DMPA08, FW85, GA71]. 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, Rut22d, RC24b, Rut24k, Rut25a, RC29, Sod04,
Tre71b, Tre71a, Rut04a, RC21b, RC22, Rut24m, Rut34g]. Diskussion
[Rez29, Rez32]. dispersive [Bar85, Sku89]. Distinction [Ano23b].
Distinctions [Ano66d, O’S71, O’S72]. distorted [Wie78]. distortion
[WCZ+02, ZCS+12]. distortions [Cle81]. Distribution
[LGA+06, Rut06b, LCL+04, Rot74, RG10, TGP11, Wil83b, Rut06b, Rut06n].
distributions [RR95]. Divergence [Mar72]. dnja [Kap73]. Do
[Rut10a, Rut10b]. doctorate [Lüd13]. document [Lüd13]. documentary
[Cam14, GA71]. Does [Rut04c, Rut04d, ZB74, MDJF83]. Foundation
[Ano38a]. Doomsday [Ano05]. Dopant [MCJK90]. Doped
[MKM+07, Lu87]. double [Sad81]. doubts [Ano23b]. d’ouvrages
[Mon66, Sen87]. Down [Ano33b]. Dr. [Ano09c, Ano22, Ano32b]. Drafting
[Ano94, Stu94]. drug [Mor75]. duality [NM12]. d’uranium [RB06a]. durch


E. [Aro65b, Rad13]. Each [Ano32b]. Early [Adl97, Bai13, Her72, KT88, Kra11, Lew79, Nav06, Rut24c, Tre71b, Kau86, Kra13, Rut32b].

Earthquakes [Cam14]. easily [Rut03b, Rut03f]. easily-absorbed [Rut03b].

Dutch [Bur18]. Dyson [Sch58].

E. [Aro65b, Rad13]. Each [Ano32b]. Early [Adl97, Bai13, Her72, KT88, Kra11, Lew79, Nav06, Rut24c, Tre71b, Kau86, Kra13, Rut32b].

Earthquakes [Cam14]. easily [Rut03b, Rut03f]. easily-absorbed [Rut03b].

Dutch [Bur18]. Dyson [Sch58].

E. [Aro65b, Rad13]. Each [Ano32b]. Early [Adl97, Bai13, Her72, KT88, Kra11, Lew79, Nav06, Rut24c, Tre71b, Kau86, Kra13, Rut32b].

Earthquakes [Cam14]. easily [Rut03b, Rut03f]. easily-absorbed [Rut03b].

Dutch [Bur18]. Dyson [Sch58].

E. [Aro65b, Rad13]. Each [Ano32b]. Early [Adl97, Bai13, Her72, KT88, Kra11, Lew79, Nav06, Rut24c, Tre71b, Kau86, Kra13, Rut32b].

Earthquakes [Cam14]. easily [Rut03b, Rut03f]. easily-absorbed [Rut03b].

Dutch [Bur18]. Dyson [Sch58].
Emanationen [Rut01b]. Emanations [Rut01c, Rut06a, Rut01b, RS02d, RS02e, RS02a, RG11]. emergence [Pol60].
Emerging [Gus12, Hon03]. emissions [RH06a, RG08c]. emissions [RR07].
emitted [MOS12a, RWL31b, GF10, Rut00g, Rut00b, Rut00e, Rut07g, RG08c, RG09b, RR13a]. emittierte [Rut00e].
end [Kru75, Man77]. enduring [Lon16].
energetic [vBD89]. Energia [MSB+37]. Energie [RM00b, RM00b, Mon66, Rut07h]. Energies [Elf14, BP93]. Energy [Ang00, Ano22, Ano32a, RG11].
espiaker [Jen11, OKR35b, RM00b, RM00a, RM01, Rut12e, Rut24i, RC29, Rut35k, Seg85, Sod49, Bar85, BVI88, DJA+04, HKH96, MB90, RR13a, RR07, RR08a, Yuh92, vdK89, Ano32c, RM00b, Mon66, Tre75a].
England [Stu79b, Ano07]. English [Hei74]. enhanced [Sin93]. Enrichment [MKM+07, DCG07, Shi88]. Enrico [GLR06].
enstehenden [HS39]. Entstehung [Pol60, Rut31d, Rut31c]. Entwicklung [Har38].
Epoc [Fea62b]. Era [Cro74b]. erbium [TRJS03]. Erdalkalimetalle [HS39].
erdmenyei [RA45]. Erinnerungen [Rut32b]. Ernest [Ano12a, Ano19, Ano23b, Ano66b, Bad04b, Bohl26, Cha71, Gar62, Hah62, Hub13, Lüd13, Mil13, Mur13, RSWE27, Rut26a, Sch31, Seg80c, dR92, dCA68, Ano36b, Ano66d, Ano66c, Ano71a, Ano09b, Ano09c, Ano16, Anoxxa, Anoxxb, Bad71, Bad75, Bad04a, Bad08, Badxx, Ble99, Bro62, Cam97, Can98, Coh88, Coh89, Coh91, Coh92, Coh97, Dea03, Far63a, Flo70, Gra02, Grl09, Hah67a, Hei03, KS76, Lab38, Lai37, Lee98, Low79, Lüd13, Mac11, MM03, MK62, Moo74, O'S71, O'S72, Ole81, Opp64, Poo52, Pri08, Reo88, Rii70, Row55, Row57, Sie11, SN67, Stu00, Sut01, del79, Ano60, Bir57, Ble57, Tre76a]. Ernests [Oli66a, Oli66b, Oli85b]. Errata [Ano94]. Erratum [Hwa83]. erragte [Rut02e, RA02a]. erregter [Rut02d].
ErSi [WVD+96]. Erzeugung [BR11a, BR11c, RM00b]. Essay [Ano64].
Evaluation [Cle81, IOI+11, KIS+89]. evaporated [LGF+99, SBE086]. Eve [Rut05j, dR92, dR92, Coh88, Coh89, Coh91, Coh92, Fos49, Lin40, Rut05j, Swa40, Coh40]. Even [Mil95]. Evidence [TGMR74, DJBW83]. Evolution [Fow72, Rut91, Rut15m, Rut15n, ZWJ+02]. exactly [EFKS96]. Exchange [MBS+04, HFD+99, HW92, STB+01]. Exchange-diusion [MBS+04].
Excited [Rut01d, RA02b, Rut02d, Rut02e, RRR14, Rut14h, RA02a, Rut02a, Rut03h].
Exhibition [Rut15a]. Exiles [Rut34k, Rut34n]. exist [Rut10a, Rut10b].
Existence [Cha32a, Cha32b, HS89, Rut02f, HS39]. Existenz [Mos13b].
Existieren [Rut10a, Rut10b]. expansion [Rez25]. expelled
[RH06a, Rut06m]. **Experiment** [Ano23a, Eic72, Gre07, Hes00, Kap74, Rut29i, VV09, Bis90, DBE^+85, DY68, GW73, Hau82, LSN^+09, Lor88].  
**Experimental** [Hon03, Ano37d, Bur13b, Sod02]. **Experimentalists** [Gea14a]. **Experimentalvorlesungen** [Sod02]. **Experiments** [Mos13b]. **Expert** [Ano08a]. **Expertise** [Ano37d, Bur13b, Sod02]. **Explainers** [Gea14a]. **Explaining** [vG95]. 
**Exploration** [Rit92, WH72]. **Exploded** [Ano32b]. **Exploding** [Rut15i, Rut16b, Rut15g, Rut15h]. **Explosion** [Bad04a, Hei03]. 
**Exposed** [Rut97c, Rut97a, TR96]. **Expulsion** [Ano08a]. **Extended** [WM88]. **Extension** [Ano12b]. **Extraordinary** [Jen08]. 
**F** [Whe04]. **F.** [Bro62, Rus56a]. **F.R.S** [Ano36a, Ano46a, Ado66b, How58, dCA37, Boh37, Cha37, Eve37, Sod37, Tho37a, Tho37b]. **F.R.S.** [Ano36h, Cro35, Eva39a, Eva39b, Kap66b, dB32]. **F.R.S.N.Z.** [Ano36a, Ano46a].
Foundations [Bey49, NL00]. Founder [Boh61]. four [Kis82]. Fourier [TGDS99]. Fragments [HS89, Sch33].


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, Rut32e, Tre76b, CBZ+12, RR13d, Rut32d, Wen53].
Gamma-Rays [Rut32e]. GaMnAs [ZCS+12]. Gamow [Har01]. GaN
[CCR+03, IOI+11, LCL+04, WCZ+02]. GaP [KG91]. Gas
[Ano22, RB01, RB02b, Rut29i, GR89]. Gasen [RM00b]. Gases
[Cha12, Rut97a, RM00b, RM00a, RM01, Tho03, Tho06, TT33, TT69, Rön58, Rut07c, Rut01e, RN13, Rut24e, Rut24f, Rut24g, Rut24h, Rut26i, Rut26j, Rut26k, Rut26l, Rut29b, Rut29c, Rut29d, Rut29e, TR96, YHS97].
[Kor12, Ano71b, Boa07, Kor12, TGMR74]. Geiger-Müller [Kor12]. General
[BN04, NM12, Hei34, Wer23]. générales [Hei34]. generation
[RR12, Rut16e]. genius [Mac11, Ree08, Wil83a, Sei86, Stu85, Tre85].
geniuses [Mil95]. gente [Sno68]. geodynamics [EMR07]. Geometrical
[Liv62]. geometries [SML91]. geometry [DM96]. geophysicists
[Bow14, Goo10]. geopolitical [Ree15a]. George
[Bur64, Sno67, Sno68, Ano59, Har01]. geringer [Rut05j]. German
[BR11a, BR11c, FR60, Gam28, Gam29b, Gei38a, HM31, HS39, Har38, Hou30, Kor12, Lid13, MMKS+80, Pol60, RM00b, Rut00e, Rut01b, RS02b, RA02a, RG02a, Rut02c, Rut02d, RS02a, Rut02e, Rut03b, Rut04b, Rut04a, Rut05j, Rut05b, Rut06i, Rut07e, Rut07g, Rut07a, RL07, Rut08c, Rut08d, Rut08b, Rut09b, Rut09c, RG09c, RG09b, RG09a, Rut09c, Rut10a, Rut10b, Rut11e, Rut11b, RR12, Rut13b, RR13a, Rut13g, Rut21d, Rut24a, Rut24b, Rut31d, Rut31c, Rut32b, Rut36f, Rut15, Sod02, Tho08a, Tre74b, vbB07, vbB13, vW35]. germanium
[Sku89]. Geschichte [FH60]. Geschwindigkeit [Rut07g].

H [Ano64, Pin24, Sno67, Sno68, YKH+84, YKH+84]. H. [Hei74, Rut16a]. Haas [Pia24]. Hadron [Giu12]. hafnium [IYT+09]. Hahn [Hah67b, She83a, She83b, Tre83]. Hails [Ano38b]. hall [NL00, Ano09a, CYM+03]. haloes [JR13]. Hammarskjöld [Sno67, Sno68]. Handbook [Rut13b]. Handbuch [Rut13b]. hard [CK33, Rut33]. Hardy [Ano67, Sno68]. Harriet [Ged16, Mor84, RCRC92, RC04, RCRC05]. Hartcup [Sei86, Sen87, Stu85]. Haven [Bro86, Hei71, Szy85]. Hawking [Croc01]. headquarters [Bri31]. Heat [Rut05l, RR12]. Heating [RB03a, RB03b, RB04a, Rut04e, RB04b, RB04c, RB05c, RR13]. heavily [Lu87]. Heavy [OKR+33, OHR+34a, OHR+34b, Rut33c, RK34, RSA+34b, RSA+34a, Rut38f, GHC91, RRHK94, RR95, Rut37e, Rut37f]. heavy-ion [GHC+91, RR95]. Heibron [Bad04a]. Heisenberg [Lak96, Sch58, Bre97]. Held [Bar61, Tre75b, CCJ+34, LR+92, Sod02]. Helium [Ano08a, Ano32b, BR+11a, BR+11b, Rut03a, RB09, Rut31f, Rut37d, Rut66a, BR11d, BR11b, BV88, KY11, Rot74, RC27, BR11b]. helium-ion [KY11]. Hendry [Stu85, Sei86]. Henri [Gen95]. Henry [Hei08, Ole81, Rut15c, Rut37a, Rut14]. her [Ged16]. here [Bre97, Kay63]. Hertz [Gea12a, Gea14b]. hervorgerufen [RA02a]. hexafluorophosphate [OH+09]. HfO [NJS+03, NFM+07]. HfSiON [MBS+04]. Hg [Con82, WZS+91, Win94]. Higgs [Kra12]. High [Ano22, EMVK90, HGM+94, IYT+09, LHB+09, Mos12b, Mos13a, Mos14b, NOSK08, Rut94, Rut5, RP07, Rut27g, Rut28c, Rut29a, Bha82, CFMO12, DGC07, FLP+89, HNS+11, KB93, NJS+03, NFM+07, NOH+10, NMSK13, OHN+09, RR95, Rut24e, Rut24f, Rut24g, Rut24h, TCZY97, Ano37i, Lau37].

High-Energy [EMVK90, RR95]. High-Frequency [Mos13c, Mos14b, Rut94, Rut5, Rut28c]. High-Resolution
[NOSK08, HGM⁺94, IYT⁺09, CFMO12, DGC07, HNS⁺11, NJS⁺03, NFM⁺07, NOH⁺10, NMSK13, OHN⁺09]. high-temperature [FLP⁺89].

Hilger [Stu85]. Him [Ano09a, Ano38b, RCO⁺54]. Hiroshima [Pre05].

Histoire [Mon66], história [dAMxx], Historic [Coh97]. Historical [Seg5, Rön58]. histories [Pei97b]. historiografía [dAMxx].

historiography [dAMxx]. History [Adl97, Anoxxb, Anoxxc, Gar81, Her72, HHK87, RN04, Rut19c, Rut23a, Rut24j, Rut33b, Sin81, Stu78, Stu79b, WP85, Ber07, Eva96, FGM⁺60, GA71, Har05, Kim02, KHFA67, Leo05, dAMxx, Rut12a, Rut23m, Tod14, Tre77b, WH72, NP38, NP40]. Hitting [Kow53].

Hodder [Stu85]. Home [Ano09c]. Hon [dCA37, Boh37, Bra37, Cha37, Coh40, Eve37, Eve39, Eve13, Smi37, Sod37, Swa40, Tho37a, Tho37b, DB32].

Honorary [Lüd13]. Honors [Ano10]. honour [Ano37k]. honoured [Ano09b]. Honours [Ano66d, O'S71, O'S72].

horse [Dow08]. Horvath [Gri09]. Hotel [Wel90]. Houston [Wel90]. Human [Boh63, Dys05, SMJ35a, SMJ35b, Boh87]. hundred [AK15, Ano95, DMPA08, Mor74]. Hungarian [RA45]. hydrated [Wan96].

Hydrogen [ERM95, OKR33, OHR34a, OHR34b, Rut19f, Rut21e, Rut29i, RK34, RSA⁺34b, RSA⁺34a, Rut37d, Till96, BVI88, Ekd48, HKH96, Lak96, Rut33c, Rut34j, Rut34a, Rut34b, Rut34c, Rut34d, Rut34l, Ano32b, Rut19e]. hydrogen-[BVI88]. hypothesis [Stu83].

Ideas [Kae36, Bre97, HT10]. Identification [Rut22g]. identity [Tem89]. ih [Rez28]. ihre [Mec14, Rut13b, Rut13g]. II [Aro65a, RS02b, Rut11h, dR92, Bad05, Coh89, KLL⁺90, LSK⁺88, Mor84, Mos14b, Oli66b, RO99, RS02b, RS02f, RS02c, Rut04h, Rut06h, Rut08i, Rut09h, Rut11h, Rut19f, Rut20c, Rut21b, Rut22k, Rut26c, Rut26j, Rut27b, Rut28e, Rut29c, Rut30c, Rut35g]. III [Ano66e, Coh91, RS02k, Rut19g, Rut20d, Rut21c, Rut22l, Rut26d, Rut26k, Rut27c, Rut28f, Rut29d, Rut30d, Rut35h, Aro66]. illustrated [Bri31].


Immense [Ano23b]. Immersion [KT84]. implantation [BPSW91, PAF⁺98]. implanted [BKP⁺06, Bha82, CFMO12, FTT96, GRS⁺91, KBvB⁺05, KG91, Rot74, SSWB80a, Sad81, TJRS03, WCGB86, Whi82, ZWJ⁺02]. Implications [Ang00, Nia98, RN04, NM12]. Importance [Bad71, Ble99]. Improvement [HNS⁺11]. Improvements [BR16]. InAs [Sar79]. inaugurated [Sie11]. incidence [Wan96]. incident [BP93]. incomplete [Pye78]. incorporation [KB93]. India [Ano38b]. Indian [Rut38c]. Induced [Bau73a, GLR06, Bau73b, CBZ⁺12, RKL88, RA02a]. Industrial [All64]. inelastic [Fow83]. Infecting [RMM⁺29]. Influence [Kae39, SG85, SLA⁺00, DMV⁺96, Rut01b]. infrared [Sin93, TGDS99]. InGaN [PPA⁺02]. InGaN/GaN [PPA⁺02]. initial [DGC07, HV84].
Kamerlingh [Pia24]. Kapitza
[Ano66a, Bad85a, Bro86, Rub97, Vuc86, Szy85]. Karlsruhe [EC13]. Kay
[Ano45, Hug08]. Kelvin [Ano33c, EMR07,Tip13]. Ken [Stu79b]. Kendall
[Rut21d]. keV [HKH96]. Key [Pae15a]. Kinetic [NBG +84]. Kinetics
[Lee98, Stu00, HV84, SDD+08]. King [Ano37]. Kissinger [SDD+08]. Klein
[Sch58]. knew [Kat12, RCO54]. Knowledge [Boh63, Boh87]. Known
[Ano07]. Konstitution [vdB13]. Kremlin [Bad85a, Bro86, Szy85, Vuc86].

L [Ano66a, Bad04a, Kap66b, Pia24]. Laboratories
[Ano12b, Ear66, Har07, Bri31]. Laboratory
[Ano32b, Ano45, DBE+85, Hug08, Kay63, LEM65, Woo46, Ano90c, Bad83,
GW73, Tre79, Ano32c, Ano66a, Cro74d, Cro74e, Kim02, Nav06, Rut19c].
Laborde [Mon66]. Laby [Dea03]. Ladung [Rut08c, Rut08d, RG09a]. Lamb
[Sch58]. Langevin [Kat12]. large [GM13, Gro89, Giu12]. Laser
Late [Ano38b, Foc39, MSB+37, Ano37]. lateral [WZS+91, Wan96]. Latest
[Ano32a, Rut09d]. Latex [LGA+06]. l’atome [Mon66]. Lattice
[RSdS+89, TJRS03]. Laura [Mon66]. laureate [How58]. Law
[Rut34o, Ram75, RC25]. Lawrence
[Bro86, Fea70, Hei71, Jen08, Oes70, Ole81, Szy85, Tre77a, Vuc86]. laws
[GM13, Sta61]. Layer [LFA+04, LCL+04, WVH+99, WYV+99, WCZ+02].
layers [FLP+89, IOI+11, MB90, Sad81, WVD+96, ZCS+12, vIS89]. lead
[WVCW76]. Leadership [Kim02]. leading [Cro01]. Leads [Ano32a].
Learning [Rut36k, Rut36g, Rut36j]. Learns [Ano06]. leaves [Ano07].
Lebenswerk [Gei38a]. Lecture [dCA58, Ano66a, Boh61, Kap66b, LEM65,
Rut26f, Rut31b, Rut36h, Rut37a, Sme97b, NL00, Rut33h, All64, Ano90c,
Bl85, Bra61, Bur83, Bur82, Cha33, Cha54, Cac53, Dar56b, Dee67, Fea77,
Fow72, Mar54, McG84, Moe78, Mor75, Mot63, Rut041, Rut05p, Rut20g,
Rut21d, Rut14, Sho82, Tho65, Tiz46, Zim69a, Zim69b]. Lectures
[Rut12a, VRWB12, NP38, NP40, RCO+54, Sod02, dB14, Ano12a]. LEED
[Nor79, NBG+84]. legacy [AK11, Har05, Lom16, TJ11]. leicht [Rut03b].
Leipzig [Mos13b]. length [Rut14f]. lente [Rut05g]. Lenz
[Agu96, BB80, Far87]. Léonidovich [Rub97]. letiju [Kap73]. Lett [Hwa83].
Letter [Ale46, Mos14a, Rut26a, Rut35a, Shi88]. Letters
[Coh40, Coh88, Coh91, Coh92, Fae70, Hei71, Oes70, RSWE27, Swa40,
Szy85, dR92, Ano36b, Bad69, Eve39, Eve13, Hei74]. levels [dAMxx].
L’histoire [Mon66]. LI [Rut19e, Rut21g, Rut27l]. Library [Ble57]. Life
[Anoxb, Cac46, Coh40, Mar54, MF11, Rut23m, Rut23n, Rut23o, Rut24j,
Swa40, Ano20b, Cam15, Cro01, Eva39a, Eva39b, Eve39, Eve13, Gei38a, Hei74,
How58, Sim96, Ree16]. Life-history [Rut23m]. Light
[Cha12, OKR35a, Ree06, Rut98, Rut19a, Rut19e, Rut19f, Rut19g, Rut19h,
Eva39a, Eva39b, Kae39, Oli72b, Rut24i, Bat72, Fei11, Lew02, Moo66, Sch57.

Manchester [Ano64, Bir61, Bur64, Har07, Hay63, Raz63, Seg64, dCA68, Ano07, Ano08b, Ano08f, Ano09a, Ano12b, Bir62, Bir63, Faa62b, Gea61, Gei38b, Hug08, Kat15, Rus51, RC63, Ano64, Ihd64, See66, Aro65a].

Manhattan [Ree15a]. Many [Kae36, Sch58].

Many [Kae36, Sch58].

Mapping [NL00].

Marchal [Bro62].

Maria [DMPA08]. Marie [Gri09, Pre05, Rut35j, SG85]. Mario [Sin81, Stu79b, Whe80]. Mark [Bat72, Tre73]. Marking [Cat12].

Marsden [dCA68, TGMR74]. Mass [Gam30, RH06a, Rut37d, BPSW91, Cle81, CSN+00, Eid48, Gro89, NMSK13, Reu81, Rut06m, Rut07g, RR13a, RR14, Rut21g, Wil83b, vW35, RH06b].

Massachusetts [VRWB12].

Masses [OKR35a].

Material [JBS12].

Materials [Rut03c, FLP+89, SBEO86].

Materie [Rut24a, Rut24b].

Mathematical [Rut09i].

Matin [Ano19].

Matrix [LRF86]. Matter [Ano80a, Ano32a, Fre79, Rut06k, RG08e, Rut12f, Rut22f, Rut22p, Rut23l, Rut23r, Rut23q, Rut26b, Rut38d, Rut38e, Tre75b, Whe04, FR33, Rut06l, Rut11i, Rut15m, Rut15n, Rut20b, Rut20c, Rut20d, Rut21a, Rut21b, Rut21c, Rut22e, Rut23s, Rut24a, Rut24b, Rut25b, Rut25i, Rut28d, Rut28e, Rut28f, Rut30g, Rut30j, Rut34e, Rut12, Wyb72, Rut13c, Rut13d].

Max [Lüd13, Lüd13, Rut29f, Ole81]. Maximum [RBR15].

Maxwell [Lon16].

May [Ano32a, Ano06].

Maynard [Lov75]. MBE [BBR80].

McGill [Ano09b, Eve06, Ano07, Bad79a, Fea62a, Hah62, Hei79b, Mor84, Sha37, Sod03, Ter38, Tre79]. Means [Jen11, Fow83].

Measured [HKM°09, SER°01]. Measurement [Boa07, vBD89, HKH96, YKH+84].

Measurements [MG12, Bur86, CYM°03, DBvdV87, KKGW85, LSK+88, Rut11e, SDD°08, vBBGO90, vBBDD°92].

Measuring [KB93, Mar61, Rut16e, SBE086].

Mechanical [Bai13, SC13, Tem89].

Mechanism [FW67, YKH+84].

Medal [Ano36a, Ano46a]. Medical [DMPA08, Pod10a].

Medientransformation [Lüd13].

Meeting [Ano38b, CCI°34, Rut27e, Rut27j, Rut28a, Rut28g, Rut29j, Rut29k, Rut30a, Rut30h, Rut31a, Rut31e, Rut38c, LRD+B°23, Ril70].

Meets [Bou99].

Meitner [Sim96]. memoir [Lov76]. mémoire [Rut12c].

Memorial [All64, dCA58, Bla59, Boh61, Bra61, Bur83, Bur82, Cha54, Coc53, Dar56b, Dee67, Faa77, Fow72, Mar54, McG84, Moo78, Mor75, Mot63, Rut37a, Rut14, Sho82, Tiz46, Zim69a, Zim69b, Ter67].

Memoriam [Har38]. Memories [Dal50, Gei38b, Hug08, Rut32b].

Memory [Ano37k].

Men [Cli87, Rut33b, Sno67]. Mercury [Far87]. Messungen [Rut11e].

Métadier [Mon66].

Metal [Mar61, Her84]. Metallization [Kot91].

Metallurgy [GRS87, KT84].

Metals [Mot63, Sho82, HS39].

Metamorphosis [Tre75d].

Method [RG08a, RG08e, RC12b, RWW30, RLB33, FLK92, KIS°89, Rut03h, RG08c, RG09b, RC12a, Rut16e].

Method [RG09b, RG08e, RC12a].

Methods [SN05, BSS88, Rut15d, RA45].


Michael [Gus12].

Microanalysis
Eva39a, Eva39b, Eve37, Har38, M.39, Seg66, Smi37, Sod37, Tho37a, Tho37b, dB32, Badxx, Bru64, Cha65, Cha14a, Cha14b, Cla71, Da150, Foc37, Gei38a, Har38, Jar08, Mil38, Mol63, RC62, Seg80c, Seg62, Seg64.

neodymium [KG91], neon [BVI88], neutron [BVI88], Neuere [Hou30], neuesten [Rut09d]. Neutral [KKGW85, Gro89, HFD99]. neutrals [vBD89]. neutrino [Nav06]. 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].

Neutronen [HS39]. Neutrons [Elf14, GLR06, HS89]. Neutrons [Elf14, GLR06, HS89]. Neutrons [Elf14, GLR06, HS89]. Neutrons [Elf14, GLR06, HS89]. Neutrons [Elf14, GLR06, HS89].

Newer [Bad66, Dav37, Rut37a, Rut37b, Rut14]. Newnham [Rut37a, Rut14].

Newton [Tho08a, Ano38b, Ano09a, Tho08a, Tho08b]. Newtonb [Fea72].

Ni [AAPN06, SHAI09, Wuy91]. Ni/Au/Te [Wuy91]. Ni/Si [AAPN06].

Nickel [BPSW91]. Nickel [BPSW91]. Nickel [BPSW91]. Nickel [BPSW91].


No [Ano23b, Ano09c]. Nobel [Adl03, Ano37i, Hou58, Jar08, Lau37, Adl12, Ano80b, Ano09a, Ano09a, Ano16, CSW96, Far53, Far63c, Tho08a, Tho08b].


Non-Technical [Ole81, Low79]. Non-Technical [Ole81, Low79]. Non-Technical [Ole81, Low79].

Nondestructive [BSS88]. Normal [Rut11e, WZS+91]. Note [Dem03, RS02d, RS02e, Rut05d, Rut11f, Rut12c, Rut29f, Rut16e, Rut05j].

Notes [Ano02, Cha64, Eic72]. Nötige [RMM0b]. novel [DM96, Nic32, Rut16e]. November [Ano48, Lov75, Rut27e, Rut27j, Rut28a, Rut28g, Rut29j, Rut29k, Rut30a, Rut30b, Rut30h, Rut31, Rut14].

Novodobá [Rut38b]. noyau [Hei34]. noyaux [CCJ+34].

Nuclear [AK11, All64, dCA56, dCA58, Ang00, Ano94, Ano00b, Anoxxa, Anoxxd, Bad83, BB36, Buh61, Bri65, DMPA08, Fre12, Gam30, Gea62, Gra64, Hug12, Jen00, Mas72, OKR35b, OKR35a, Rut20g, Rut20e, Rut66c, Sea88, Seg85, Sei86, She83b, Stufu, Tre75a, And73, Bad05, Bey49, Cat93, CAN88, FLP+89, Gar62, GA71, Hei67, Her77, Leo05, MBS*04, NGB+84, Pae15a, RCRC90, RRC92, Ree15a, Rut21d, RA45, SHAI09, Shi72, STB*01, Sie11, Stufu, WH72, Wen53, Whi82, ZWJ*02, vW35, Rez21, Stufu].

nucleation [FGM+00]. Nuclei [BGB36, Gam29a, Rut25a, Rut25g, Rut25f, 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, Stufu6b, Cat12, Gam30, Hei34, Hoo30, LSN+09, Pae15b, Rez29, Rez32, Rut24d]. Nuklearnæve [Rez21].

Number [Dar56b, Mar61, Mos12a, MR14, RG08a, RG08e, Dar56a, GF10, Lee98, Stufu].

Numbering [Jaf71, Jaf72, Sar27]. numération [RG08c].
[HS89, MR14, Rut09, Rut00a, Rut10f, Rut00c, Rut00d, Rut00f].

**Product** [Ano37i, Lau37].  
**Production** [Boi06, Rut07i, Rut07e, Rut28c, BR11a, BR11b, BR11c, CAN88, Rut07b, Rut07k, RB15, BR11d, RB09].

**Products** [MF11, Rut05i, RP07, Rut04n, Rut04j, Rut05o, RR13b, Rut05g].

**Produits** [Rut05g].

**Prof** [Mos13b].

**Professor** [Cro74a, Ano04b, Ano04c, Ano08d, Ano08e, Ano08f, Ano08g, Ano09a, Gri09, Hal62, Rut29f, Sod02, Sod03].

**profession** [Ged16].

**Professor** [Ano06, Ano08a, Rut28b].

**Profile** [Mar61, Ree15a].

**Profiles** [Ano59, ATS86, Cle81, IYT+09, LRF86, ZCS+12].

**profiles** [MCJK90, PMCF+06, SLA+00, Win94].

**profiling** [BSS88, MBS+04, NJS+03, PPA+02, vIS89].

**Progress** [Rut33b, Ano33d].

**Project** [Mar61, Ree15a].

**Projectiles** [Rut19a, Rut23a, Rut23b, Rut23c, Rut23d, Rut23e, Rut23f, Rut23g, Rut23h, Rut23i, Rut23j, Rut32a].

**Projector** [Eic72].

**Proof** [HS89].

**Propagation** [Hon03, Rut26g].

**properites** [Eve05].

**Properties** [Rut05k, Rut06h, Rut08i, Rut10c, Rut10d, Rut24e, Rut24f, Rut24g, Rut24h, Rut28c, Cat93, CCJ+34, Mak08, Rut05m, Rut06i, 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].

**Proton** [BP93, Rom97, YHS97], **protonated** [HW92].

**Protonen** [MMKS+80].

**Protons** [Ano32b, CW32, Elf14, OR33, OKR33, MMKS+80], **prouton** [Rom97], **Pt** [NBG+84, OaHNM98].

**Public** [Nic32, Rut34m].

**Publications** [Foc39, Sin81, Stu79b].

**Pulse** [Wie78], **pulsed** [YHS97], **Pumpkin** [Gus12], **Pure** [Ano23b, Coo13], **Puts** [Ano38b].

**Pyrolytically** [ERM95].

**quality** [KIS+89].

**Quanta** [Kle66, dB70].

**Quantentheorie** [Gam28, Gam29b, Hon30, Pol60].

**Quantitative** [Par96, PMCF+06].

**quantités** [RC12a].

**Quantities** [RC12b, Eve05, Rut05j, RC12a].

**Quantity** [JBS12].

**Quantum** [Ano03, Nia98, AH13, Bai13, Cli65, Cli87, Con62, Gam28, Gam29b, Gam85, Hon30, KHFA67, PPA+02, Pol60, Sch58, SC13, Tem89].

**quarks** [Seg80a].

**quarter** [Ano33d, Rut33j].

**Québec** [Ano09b], **quelques** [RC12a].

**questioners** [Cli65].

**questions** [And73].

**quote** [Ano50].

**R** [Pia24, Sin81, Stu79b, Whe80, DB14].

**Race** [Dys05, Cat04].

**radar** [Fra05].

**Radiation** [Hes00, MM12, Poi01a, Rut97a, RO99, Rut99, RC03, Rut04g, Rut04h, Rut04o, Rut06b, Rut11a, Rut28c, Rut29a, AB09, Jor16, Rut97c, Rut00d, RO02a, Rut06n, Rut17].

**Radiations** [MR14, Rut12f, Rut15i, Rut15g, Rut15h, Rut16b, RCE30, RCE51, Rut10b, RB02a, Rut12g, Rut13b, Rut13j, Rut13g, Rut29b, Rut35f, Rut35g, Rut35h, Rut35i, Poo52, Mil13, Sch31].

**Radio** [Ano08a, Bar06, MG12, McG84, MF11, Rut00c, Rut01c, Rut02h, Rut03c, Rut04l, Rut04c, Rut04k, Rut05p, Rut05h, RB05b, Rut06a, RB06b, RG08a, Rut13f, Rut13i, RC19, Rut04, Rut07a, Sod04, Cat93, Rut00g, Rut00h, RS02i, vdB13].

**Radio-Active**
[Rut04l, Rut05p, RG08a, Rut13i, MF11, Rut01c, Rut02b, RB05b, Rut06a, RB06b, Rut13f, Rut00g, Rut00b, RS02j]. Radio-Activity
[Ano08a, Bar06, MG12, Sod04, Rut00c, Rut03c, Rut04c, Rut04k, Rut05h, RC19, Rut04, Rut07a, RS02j]. radio-frequency [Cat93]. radioactifs
[RB06a]. Radioactive [Ano37i, Bad68, CDE +31a, CDE +31b, CDE +31c, Fre79, Hol30, Lau37, 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, Rut06a, Rut07j, Rut07g, RG08c, RG09b, RR09b, RR09a, RG11, Rut11e, Rut12a, Rut12b, Rut12c, Rut12h, RR13a, RR14, Rut27l, Rut27h, Rut10b, Mec14, RS03b, Rut03g, Rut13b, Rut13g, Hub13, Mil13]. radioactiven [Rut04a]. radioactives
[Rut06b, Rut07b, RG08c, RR09a, Rut12b, Rut12c]. Radioactivité
[Rut05c, Cur10]. Radioactivity
[Adl97, Ano00b, Ast70, Bad65, Bar05, CR21, GLR06, GLR12, GT95, Hug12, Kra12, Mon66, Roe95, Rom64, Rut00a, Rut01d, RA02b, RS02c, RS02h, RS03c, Rut03e, Rut05d, Rut07f, Rut08g, Rut11d, Rut22j, Rut22k, Rut22l, Rut22m, Rut22n, Rut22o, Rut22p, Rut35b, RS03c, Rut36h, Rut37g, Sod03, Tre71b, Tre71a, Tre75c, vG95, Bad69, RS02b, RA02a, RS02f, Rut02a, RS02j, RS02k, RS02l, Rut02d, RS02a, Rut02e, RS02g, Rut03h, RS03d, Rut03d, Rut04d, Rut05c, Rut05f, Rut06d, Rut09l, Rut24c, Rut32h, Rut86, Rut00f, Rut07a, Rut36f, Rut15, Fea70, Hci71, Oes70]. Radioaktive
[Rut13b, Rut00e, RL07, Rut13g]. radioaktiv [RG02a, Rut02c, RG09b, Rut11e, RR13a]. radioaktiver
[Rut01b, Rut04b, Rut05b]. Radioaktivität
[RS02b, RA02a, RS02a, Rut02d, Rut02e, Rut07a, Rut32b, Rut36f, Rut15]. radioattività [Bel82]. Radiochemistry [AM95, Adl12, Bad79b, Kau86]. Radioeile [vdB13]. Radiological [dR85]. Radiologie [Rut13b]. radioaktive [ESWW82]. radiothorium [Tre83]. Radium [Ano04c, Ano06, Ano09c, Ano22, Bol06, Cam15, CDE +31a, CDE +31b, CDE +31c, Mos12a, Mos12b, MM12, Mos13a, MR14, RB01, RB02b, Rut03a, RB03a, RB03b, Rut04c, RB04a, Rut04e, Rut04f, Rut04g, Rut04h, Rut04o, Rut05a, Rut05d, Rut05l, RB05b, Rut05k, Rut05l, Rut06c, RB06b, Rut06d, Rut06e, RP07, Rut07g, Rut07c, Rut07d, Rut07e, Rut08i, RR08b, Rut09a, RB09, RT09, Rut10e, Rut11g, RR12, RC12b, Rut12e, Rut13a, Rut14l, RdCENdCA14b, RdCENdCA14a, Rut15e, Rut19d, Rut21h, Rut24j, RW25, RWWW30, RWL31a, RL33, Bol05, BR11a, BR11d, BR11b, BR11c, DMPA08, Eve05, Har05, RS02d, RS02e, Rut03b, RS03d, Rut03f, Rut04d, RB04b, Rut04n, Rut04j, RB04c, Rut05j, RB05c, RB05a, Rut05g]. radium [Rut05n, Rut05m, Rut05o, Rut06i, RH06a, RB06a, Rut06m, Rut06l, Rut06j, Rut07b, Rut07k, RR07, RR08d, RR08a, Rut08b, Rut08h, RR08c, Rut09j, Rut11b, Rut11e, Rut11h, RC12a, Rut12d, RR13d, RR13f, RR13e, RR13c, Rut14g, Rut14f, RC24c, Sod08, Sod20, Sod22, Sod02, Sod04, Tod14,
Tre76a, Vuc86, Whe04, dB14, dB32, dR92, ATS86, AAPN06, Aqg96, AB09].

**Rutherford** [AK11, Ale46, All64, And90, dCA38, dCA58, dCAH64, dCENCA64, dCA68, Ano04b, Ano04c, Ano06, Ano07, Ano08a, Ano08d, Ano08e, Ano08f, Ano09a, Ano19, Ano22, Ano23b, Ano33c, Ano33d, Ano36b, Ano37a, Ano37d, Ano37e, Ano37f, Ano37g, Ano37i, Ano37k, Ano37l, Ano38a, Ano46b, Ano48, Ano50, Ano66a, Ano66b, Ano66d, Ano66c, Ano71a, Ano71b, Ano72, Ano05, Ano09a, Ano09c, Ano10, Ano16, Anoxxa, Anoxxb, Anoxxc, Anoxxd, App62, Ar065b, Ast70, Bad67, Bad68, Bad69, Bad71, Bad74, Bad75, Bad79a, Bad83, Bad85a, Bad85b, Bad04b, Bad08, Bar95, BJW97, Bar83, BB80, BKP+06, Bau73a, Bau73b, BSS88, BCM13, Bha82, BP93, Bir62, Bir63, Bis90, Bla50, Bla59, Bla72, BBR80, Boa07]. **Rutherford**

[Boh61, Bou99, Bow14, Bra98, Bra61, Bra04, Bre90, Bre83, Bro73b, Bro62, BPSW91, BV188, BS79, Bur13a, Bur13b, Bur15, Bur64, Bur83, BELG68, Bur18, Bur82, Bur86, CGL+94, Cam98, Cam99, Cam05, Cam14, Car98, Cat93, Cha54, CFMO12, CYM+03, CCR+03, CLZ99, Cla13, Cha06, Cle81, Coc46, Coc53, Coh88, Coh89, Coh91, Coh92, Coh95, Coh97, CSN+00, Con82, Cot10, CCR85, CBZ+12, Cro74c, Cro74b, DBE+85, DJA+04, Dan66, Dar56b, DGC07, Dav71a, Dav71b, Dav37, Dey03, Dey04, Dey91, DMV+96, DHS97, DM96, DBvdV87, Dow08, DYF67, DY68, DJBW83, Ear66, Eir72, ESWW82, Eld85, Ell00, EFK96, ESRDV84, ERMS, EV95, EMV90, EC38, Eve39, Eve13, Far63a, Far87, FLP+89, FTT96, FIY+99, Ful13, GHCA91, GW73, Gar62, Geo61, Gei38b, Geo38, GR89, Go010, Gor55, Gra02, GC00, Gre07, Gre09, Gro89, Gu638, GRS+91, HM31, Ha62, Ha67a, HV84, HRM79, HHAMS93, HDF+99, HKH96, HNS+11, Hau82, Hei68, Hei79b, Hei81, Hei03, Hei67, Her84, Her77, MKM+07, HMK+09, Hes00, How89, HW29, HZ15, HBA77, Hub13, Hug08, Hug12, HGM+94, Hwa82, IYT+09, IFS94, Ish83, IOI+11, Jac72, Jen11, JBS12, Kae39, Kap73, Kap66a, Kap66b, KB93, Kat12, Kat15, Kay63, KLL+90, KKK+99, KohM94, KBF+05, KSKF93, KIS+89, KYY11, Kot91, KGG91, Kra12, Kru75, KGW85, KS76, LHB+09, Lab38, Lai37, LHNG14, Lau37, LRF86, LGA+06, Lee98, LSK+88, LSN+09, LDM91, Lew72, Lia80, LGF+99, LEM65, LMC97, LxW99, Liv62, Lor88, Low79, Lu87, LCL+04, Lü13]. **Rutherford**

[MDJF83, Mac11, MD69, MB90, Man82, Man76, Man77, Mar61, Mar72, Mar58, Mar54, MM03, MCJ90, Mas72, McG84, Mck62, Mc14, MSB+37, MBS+04, MMKS+80, Moo74, Moo78, Mor75, Mot63, Mot72, Mur13, NJS+03, NFM+07, NOSK08, NOH+10, NMSK+13, NL00, Nor79, NBG+84, OS71, O’S72, Oeh86, OHN+09, OaHNM98, Oli47, Oli72a, Oli72b, Oli84, Oli85a, Opp64, OH64, Pae15b, Par96, PAF+98, Pei88, Pei97a, PPA+02, PBF+83, Phi83, PNFO88, Pod10b, Pol60, PMCF+06, PCK+08, Rad13, RRRH94, RR95, Ram75, RMM+13, RCR+04, RFF+01, RSdS+89, Re08, Rei79, LFA+04, Rei71, REJ86, Reu81, RSWE27, Ril70, Rit92, RCO+54, Rom97,
Rot74, Row55, Row57, Rus37, Rus51, Rut26a, Rut27k, Rut29f, SSWB80b, SSWB80a, Sad81, Sar79, SER+, See65, Seg80b, Sei86, SHAI09, SC13. Rutherford [SBE08, Sha78b, SN05, SWZ+, Sha37, She83a, SCP+, Shi72, Sho82, STB+, Sie11, Sim82, Sin93, Sku89, SLA+, SDD+, Sme97b, Sme97a, Sna58, Sna67, Sod02, Sod03, Sta61, SN67, SHCK96, Stu79b, Stu85, Stu86b, Stu00, SML91, Stu01, SPL+, Tab97, TvBO+, TMO+, TCZY97, TJ11, TF89, Tem89, Ter67, TMJ+, Tho08a, Tho08b, Tho84, TGP11, Tho5, Tho70, Til96, Tiz46, Tod14, TGDS99, Tre71a, TGM74, Tre74a, Tre74b, Tre75d, Tre76b, Tre77b, Tre79, Tre83, VPW14, Vas90, Vil05, VV09, WCGC86, WZS+, Wan96, WV07, Cer23, WMT01, Whi82, Wic65, Wie78, Wil74, Wil83b, Wil83a, WVCW76, Win94, WM88, VWD+, VWH+, WYG+, WYV+, YKH+, YHS97, Yuh92, ZWJ+, ZCS+, del79, vBD89, vBBGO90].

Rutherford [vBBD+, vIS89, vdK89, Bel82, Her01b, Bat72, Ced00, Coh40, Fea70, Hei71, Her01a, Hub01, Ihd64, Oes70, Opp64, Sei86, Sin81, Stu79b, Swa40, Tre73, Tre75a, Tre77a, Tre85, Tur01, Whe80].

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 [Hug98, Kay63]. Sanctuary [Rut34k, Rut34n]. Santilli [Bur13a, Bur13b, Bur15]. Satellite [Stu86b]. sawtooth [TMO+95]. Says [Ano19, Ano22, Ano23b]. SbCl [ESRDV84]. scale [Gro89]. scanning [FY+99, Ish83, KY11, LHNG14]. Scattering [Bau93a, BELG68, Dav71a, Dav71b, DYF67, Ear66, Eic72, Gor55, LEM65, MD90, Mar61, Mar72, Rut11j, Sta61, TGM74, WMT01, Wis65, Wil74, Agu96, AB09, Bab71, Bar83, BB80, BCM13, BBR10, DM19, DBvdV87, DY68, FLK92, GW73, HFD+99, Hei68, Kru75, LGF+99, Man77, Pae15b, RR95, RFF+01, Rut92, Rut41, RC27, Rut12, SC13, SML91, TvBO+92, TMO+95, YHS97, vBD89, vBBO90, vBBD+92, RN13, RC25]. Scholars [Rut34n]. Scholastic [Ano66]. Schrödinger [Lak96]. Science [dCENdCA58, Ano99b, Ano20b, Ano23b, Anoxxb, Anoxxc, Boh61, Dea03, Dev91, Dys05, Gen95, Mon66, RN04, Rut33b, Rut36b, Rut36i, Rut36j, Rut36k, Rut37c, Rut38c, SG85, SMIJ35a, SMIJ35b, Sch57, Sin81, Stu79b, Zim90a, Zim90b, AK11, Bad79a, Bro62, Car98, Far16, FH60, HT10, How88, Jen08, Kat15, dAMxx, Mer96, Moo66, NP38, NP40, RCRC90, Reel5b, Rut36g, Sin12, dAMxx, Rut23p]. Sciences [Hei71, WH72]. Scientific [Bar05, Bar06, Bru79, Coc63, Eve06, Har07, Har01, Mil13, Rut27g, Rut33b, Rut33b, TGM74, dB32, Bey49, Fra05, Hah67b, Rez71, Rez72]. scientifiques [Mon66]. Scientist [Ano37c, Ano38b, Ced00, Foc37, Her01a, Her01b, Hub01, Tur01, Ano37d, Cam98, Cam99, Focxx, Kap73, RCRC92]. Scientists [Ano06, Ano22, Ano32b, Ano33a, Ano37k, Dys05, Kae36, Seg85, Cat04, DG99, Gri09]. scienza [Car98]. scoperta [Car98]. scoperte [Seg76].
Aho23b, Aho32a. Story [Fea77, Mon66, Sod49, Eva39a, Eva39b, Fea79, Gam85, How58, Jor16, Rec15a, Mon66]. Stoughton [Stu85]. straggling [WZS91]. Strahlen [RG02a, Rut02c, Rut06i, Rut31d, Rut31c].

Strahlungen [Rut13b, Rut13g, Mec14]. Strain [NJS+03, WYV+99, LCL+04, WWH+99]. Strange [Jor16]. Straus [Dys05].

Strength [Mot63]. stroenie [Rez21]. strong [Ano04]. Structural [LDLM91, KIS+89, Tho84]. Structure [Bro73b, CCJ+34, Gam29a, Hon03, 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, 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, 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, LCL+04, WVH+99]. Strange [Jor16]. Straus [Dys05].
Tho84, CBZ'12, FLP'89, GHCA91, KBvB'05, NOH'10, OHN'09, SLA'00, Yuh92. Surfaces [Dav71a, MD69]. Surfactants [LGA'06]. Surprised [Tre83]. Surveillance [BC16]. Survey [Dav37, Rut34g]. Svedberg [Mos13b]. Swift [CW32, Moo78]. Switchable [SHA109]. Symmetric [RFF'01]. Symposium [Tre75b, Wyb72, Stu79a, Stu79b]. Synthesis [Rut34g]. Synthesized [KKK'99, WVD'96]. System [Ree06, vdB07, vdB13, AAPN06, Eld85, HFD'99, HKH96]. Systems [PCK'08, RMM'13].

T [Ano32b, Sei86, Sen87, Stu85, Tre75a]. T. [Ano36a, Ano46a]. Ta/GaAs [Eld85]. T. [Ano36a, Ano46a]. Table [Kra13]. Tale [CSW96]. Talk [Rut08g, Rut15i]. Talks [Kap74]. Tanganyika [SWS65]. Te [Con82, CBZ'12, Win94]. Teacher [Kap73]. Teaching [Wil74]. Technical [Ole81, Low79]. Technique [Hon03, WMT01, CCR85]. Techniques [Bad68, NGB'84, PBFt83, SSWB80b, Yuh92]. Technologies [Gus12, BC16]. Technology [Anoxxc, KT84, Mor75]. Teil [RS02b, RS02a]. Teilchen [RG09b, Rut31d, Rut31c, vdB07, RR13a, Tre74b]. Teilchens [Rut07g, Rut08c, Rut08d, RG09a]. Telluride [Man82]. Temperament [SMJ35a, SMJ35b]. Temperatur [Rut01b]. Temperature [RP07, Rut30i, Bha82, DGC07, DBvdV87, FL'89, LCL'04, Rut01b, vBBGO90, vBBD'92]. Temperatures [vBD'89]. Ten [DMPA08, NP38, NP40]. Tens [HKH96]. Tenu [CCJ'34, LRdB'23]. Terms [Mar72]. Test [Ree06]. Tests [Ano32b]. Tetrafluoroethylene [EMVK90]. Tetragonal [WCZ'02, ZCS'12]. Texas [Wel90]. Textbooks [Na98, RN04, NM12]. TEXTOR [TvBO'92, vBBGO90]. Thaddeus [Gar81, Stu78]. Thales [Lak96]. Their [Kae36, Mili13, Ole81, Rut19a, Cla13, Mak08, PMCF'06, Rez28, Rut11e, Rut12g, Rut13b, Rut13f, Rut13g, Rut23a, Rut23b, Rut23c, Rut23d, Rut23e, Rut23f, Rut23g, Rut23h, Rut23i, Rut23j, Rut26f, Rut26g, Rut30b, Rut30c, Rut30d, Rut30e, Rut32a, RB32, Seg80a]. Theoretical [Lon03, Hei34]. Theorie [Rut09b, Rut09c, vW35]. theorie [Hei34]. Theory [Ang00, Ano32b, Gea14a, Kap74, KH23, Mon66, Mot72, Rut10f, Rut11a, Rut29i, Rut37g, Rutxx, Sod04, Tre71b, Tre71a, Tre75c, Tre75d, Cli65, Cli87, Gam28, Gam29b, Gam85, Hou30, Pol60, Rut09k, Rut09b, Rut09c, Rut30f, Rut36b, Sch57, vW35]. thermal [GHCA91, Lu87, PMCF'06]. Thermodynamics [Kle66]. thick [ZCS'12]. thickness [CSN'00, CCR85]. Thin [JBS12, LHB'09, Mar61, SCP'91, And09, Bur86, Cat93, DHS97, DJBW83, FGM'00, FIY'99, GR89, IFSI94, IOI'11, KKK'99, PBFT83, Reus81, Sim82, SDD'08, TMJ'99, WVCW76]. Thin-film [SCP'91, HV84, Sim82]. Things [Bat72]. Third [HABA77]. Third-power [HABA77]. Thirteen [Bey49]. Thirties [Hen84, Sei86, Stu85]. Thirty [Gam85, Rut33h]. Thirty-five [Rut33h]. Thomas [Dea03]. Thomson [Kra14b, Lak96, Rön58, Whe04, Kub11]. Thorium [HS89, RO99, Rut00a, RS02c, RS02h, RW16, RWW30, RLW31b, ESWW82, Flo70, GF10, Rut00g, Rut00b, Rut00c, Rut00e, Rut00f, RS02d, RS02e, RS02j].
Thoriumverbindungen [Rut00e].

Thus [Ano32b].

Those [RCO + 54].

Thousand [Ano22].

Threat [BC16].

Three [And73, Eid48].

Thus [Ano32b].

Ti [Cat93, FGM + 00, KKK + 99, PCK + 08].

Tiger [Gus12].

Time [Ano46a, Kay63, Ano36b, DJA + 04, Hah62, HKH96, Hei79b, 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 + 07, Vas90].

Titled [Mon66].

Today [Mas72].

Tokamak [vBB + 92].

Told [Ano33a].

Tomography [WMT01].

Tomonaga [Sch58].

Tondokument [Lüd13].

Tonspurerhaltung [Lüd13].

Tool [vG95].

Topography [SLA + 00].

Torn [Ano32b].

Torus [RFF + 01].

Total [KBV + 05].

total-reflection [KBV + 05].

Traced [Ano06].

traduction [Mon66].

Traité [Cur10].

transform [TGDS99].

Transformation [Ano33b, Mos12a, Rut05i, Rut11g, Rut28d, Rut28e, Rut35k, RS66, Lu87, Rez28, Rut04n, Rut04j, Rut04b, Rut05g, Rut05b, Rut05o, Rut12d, Rut36c, Rut36d, Rut36e, RG11].

Transformations [OKR35b, OKR35a, Rut06e, Rut06f, Rut11c, Rut35e, RL07, Rut07b, Hub13].

Transformed [Ano08a].

transient [CBZ + 12].

transition [Yuh92].

Transmission [Rut01d, SSWB80a, Sad81, BKP + 06, CSN + 00, Lu87, Phi83, Ye78, Rut03b, SSW80b, Wil83b, Rut02d].

Transmutation [Ano19, Ano33d, F.33, ORO33, OKR33, OHR34a, OHR34b, Rom64, Rut34i, Rut37b, Rut38d, Rut38e, Rut38f, Rut30g, Rut33a, Rut33b, Rut33j, Rut33d, Rut33e, Rut33f, Rut33g, Rut37e, Rut37f, Seg80b, Tre74a, Ano33c, Ano37i, Lau37, Mon66].

transmutations [Leo05, Rut34e].

Transmute [Ano22].

Transport [KIS + 89, TF89].

transported [YHS97].

transuranium [Sea88, Wel90].

trapped [GR89].

Treatise [Sod04].

Treatment [Liv62].

Trenn [Stu78, Gar81].

Tribute [Ano37i, Foc37, Pan57, Pan64, Ano37j, Foxxx, Kub11, MSB + 37].

Tributes [Ano37i, Ano38a, MSB + 37, Lau37].

trifluoromethanesulfonyl [NOSK08, NOH + 10].

trilogy [AH13].

Trimethylpropylammonium [NOSK08].

Trinity [Ree06].

Trip [Rut25b].

trium [Eid48].

Trudy [Rez71, Rez72].

True [MM03, RCRC04].

Truths [Kae36].

Tube [Coo13, Kor12, RB15, RBR15, Rut17].

Tungsten [Bra98, KEJ87].

tunneling [FIY + 99, LSN + 09].

Turn [BS89, Sin81, Stu79b, Whe80, Hei79a, Rig79].

Turning [Gre07].

Twentieth [Ano12a, Rut12a, VRWB12].

Two [Ano32b, Ano34, Bar83, Oli66a, Oli66b, Oli85b].

Type [Rut29a].

U.S. [CAN88].

Übertragung [Rut02a].

ucenyj [Kap73].

ucitel [Kap73].

új [RA45].

Ultimate [Ano32a, Kae36].

Ultra [GRR + 31, Rut98, RMM + 29, CFMO12].

Ultra-Microscopic [RMM + 29].

Ultra-Penetrating [GRR + 31].

ultra-shallow [CFMO12].

Ultra-violet [Rut98].

ultrathin [HGM + 94].

Umwandlungen [Rut11h].

Umwandlungsgeschwindigkeit [Rut11h].

Undergraduate [Ear66].
References


CODEN SCIEAS. ISSN 0036-8075 (print), 1095-9203 (electronic).


Anonymous:1904:P


Anonymous:1904:PR


Anonymous:1904:PRR


Anonymous:1905:DP


Anonymous:1906:ART


Anonymous:1907:RLM


Anonymous:1908:AMC

Anonymous. Atom of matter can be detected: Prof. Rutherford, expert on radio-activity, makes successful ex-
periments. Substances transformed. Accomplished by ex-
pulsion of an ‘alpha particle,’ which Prof. Rutherford be-
lieves is an atom of helium. New York Times, ??(??):C3,
November 8, 1908. URL http://search.proquest.com/
hnpnewyorktimes/docview/96833123.

Anonymous:1908:NPC

[Ano08b] Anonymous. The Nobel Prizes: Chemistry award to Manch-
CODEN ???. ISSN 0307-756X. URL http://pqasb.
pqarchiver.com/guardian/doc/474854722.html.

Anonymous:1908:P

[Ano08c] Anonymous. Personal. The Taranaki Herald [New Zealand],
natlib.govt.nz/cgi-bin/paperspast?a=d&cl=search&d=
TH19080323.2.29.

Anonymous:1908:PR

Zealander. The Taranaki Herald [New Zealand], 54
natlib.govt.nz/cgi-bin/paperspast?a=d&cl=search&d=
TH19081130.2.54.

Anonymous:1908:PRB

The Taranaki Herald [New Zealand], 54(13835):5, December
15, 1908. URL http://paperspast.natlib.govt.nz/cgi-
bin/paperspast?a=d&cl=search&d=TH19081215.2.40.

Anonymous:1908:PRBb

Manchester Guardian, ??(??):4, December 22, 1908. CODEN
???. ISSN 0307-756X. URL http://pqasb.pqarchiver.
.com/guardian/doc/474857506.html.

Anonymous:1908:PRR

[Ano08g] Anonymous. Professor Rutherford to whom the Bressa Prize
has been awarded. Manchester Guardian, ??(??):7, March 21,
1908. CODEN ???. ISSN 0307-756X. URL http://pqasb.
pqarchiver.com/guardian/doc/474772218.html.


Anonymous:1919:AGR


Anonymous:1920:PBA

[Ano20a] 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. 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.

**Anonymous:1932:SGD**


**Anonymous:1933:APW**


**Anonymous:1933:BAB**


**Anonymous:1933:BAS**


**Anonymous:1933:TAL**


**Anonymous:1936:AKS**

Anonymous:1936:RLE


Anonymous:1937:ABR


Anonymous:1937:DLRc


Anonymous:1937:DLRb


Anonymous:1937:DLRa


Anonymous:1937:FLR


Anonymous:1937:LRa

REFERENCES


Anonymous:1938:DTL


Anonymous:1938:LRL


Anonymous:1938:OLR


Anonymous:1945:MWK


Anonymous:1945:AKS


Anonymous:1946:LR

REFERENCES

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

Anonymous:1948:RCP


Anonymous:1950:FQL


Anonymous:1959:GCP


Anonymous:1960:BRE


Anonymous:1964:ERL


Anonymous:1966:RLR

Anonymous:1966:RSEa


Anonymous:1966:RSEC


Anonymous:1966:RSEb


Anonymous:1966:CPL


Anonymous:1971:ER


Anonymous:1971:RGR

REFERENCES


REFERENCES

Anonymous:2001:FMP


Anonymous:2002:P


Anonymous:2004:TSP


Anonymous:2005:RC


Anonymous:2006:MRD


Anonymous:2009:CAL


Anonymous:2009:ERF

[Ano09b] Anonymous. Ernest Rutherford and Frederick Soddy, McGill University, Montréal, Québec. Web site., 2009. URL http://www.aps.org/programs/outreach/history/historicsites/rutherfordssoddy.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-
tablished the laws of the spontaneous transmutation of the elements.”


REFERENCES


Arons:1965:BRCb


Arons:1965:BRCa


Arons:1966:BRC


Asimov:1964:FS


Aston:1970:RR


Abelson:1986:CPA


Babbitt:1971:PIC

[Bab71] Donald G. Babbitt. Probabilistic interpretation of the classical scattering cross section. Journal of Mathematical Physics,
REFERENCES


REFERENCES

Badash:1971:IBE


Badash:1974:RCC


Badash:1975:ER


Badash:1979:OBS


Badash:1979:SSR


Badash:1983:NPR


Badash:1985:KRK

REFERENCES


REFERENCES


REFERENCES

CODEN JAPIAU. ISSN 0021-8979 (print), 1089-7550 (electronic), 1520-8850.


[Bey49] Robert T. (Robert Thomas) Beyer, editor. *Foundations of nuclear physics: facsimiles of thirteen fundamental studies as they were originally reported in the scientific journals*. Dover,
REFERENCES


Bhattacharya:1982:LTA


Birge:1957:BRE


Birks:1961:PRJ


Birks:1962:RM


Birks:1963:RM


Bishop:1990:SRE


Barradas:1997:SAA


REFERENCES


REFERENCES


Henning Bubert, Leopold Palmetshofer, Gerhard Stingeder, and Marek Wielunski. Investigation of chromium, cobalt, and...

**Boltwood:1911:EHD**


**Boltwood:1911:PHP**


**Boltwood:1911:VEH**


**Boltwood:1911:LPH**


**Bragg:1916:IAD**


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


Cardinale:1998:SAC


Cattan:1993:PPR


Cathcart:2004:FCH


Cathcart:2012:GFC


Crocco:2012:SAC

J. Crocco, H. Bensalah, Q. Zheng, V. Corregidor, E. Avles, A. Castaldini, B. Fraboni, D. Cavalcoli, A. Cavallini, O. Vela, and E. Dieguez. Study of asymmetries of Cd(Zn)Te devices investigated using photo-induced current transient spec-


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:R


Cohen:1997:ER


Condon:1962:YQP

REFERENCES

0031-9228 (print), 1945-0699 (electronic). URL http://www.physicstoday.org/resource/1/PHTOAD/v15/i10. Delayed 1951 Presidential address at the 1500th regular meeting of the American Philosophical Society of Washington, 2 December 1962, at the Natural History Museum Auditorium of the Smithsonian Institution, on the 60th anniversary of Planck’s constant, \( h \). Reprinted in [WP85, pages 310–318].

Conway:1982:URB


Coolidge:1913:PRR


Cottrell:2010:RTB


Chadwick:1921:RRS


Cragg:1971:LER

REFERENCES


Cole:2000:STD

Crawford:1996:NTW

Curie:1910:TR

Cockcroft:1932:DLS

Chen:2003:PAD
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

Donne:1987:ARS


Andrade:1937:ORH


Andrade:1938:LR


Andrade:1956:BNA


Andrade:1958:RML


Andrade:1968:SRE

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


Demetrian:2003:NDR


Devons:1971:RR


Devons:1991:RSH


Daintith:1999:DS


Dash:2007:SEC


REFERENCES


References


Eichenberger:1972:NUO


Eidinoff:1948:STH


Elder:1985:SAC


Elifikky: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

[Evans:1996:EHR]

[Eve:1905:LPR]
A. S. Eve. LXV. The properties of radium in minute quantities. *Philosophical Magazine (6)*, 9(53):708–712, 1905. CODEN PHMA44. 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.

[Eve:1906:SSC]

[Eve:1937:ORH]

[Eve:1939:RBL]
REFERENCES


REFERENCES

0028-0836 (print), 1476-4687 (electronic). URL http://dx.doi.org/10.1038/534323a.


REFERENCES


REFERENCES


REFERENCES


REFERENCES


George Gamow. Zur Quantentheorie der Atomzertrümmerung. (German) [On the quantum theory of atomic fission].
REFERENCES

Zeitschrift für Physik, 52(7–8):510–515, July 1929. CODEN ZEPYAA. ISSN 0044-3328. URL http://www.springerlink.com/content/t240444152t66876/.

Gamow:1930:MDC


Gamow:1985:TYS


Garrett:1962:NAS


Garber:1981:BRS


Grecu:2000:RBS


Geake:1961:RM


[GR12] Dr. Hans Geiger and Prof. E. Rutherford, F.R.S. LVII. Photographic registration of α particles. *Philosophical Maga-
REFERENCES

Gignac:1989:RBS

Graetzer:1964:DNF

Grayland:1968:FNZ

Grayland:1972:MFN

Graham:2002:ERW

Gregory:2007:TPG

Grinberg:2009:ACS
N. Grinberg. The American Chemical Society lists Professor Csaba Horvath among great scientists such as Crick and Watson, Linus Pauling, Pierre and Marie Curie, and Ernest

Grove:1989:AER


Geiger:1931:DUP


Geffken:1987:CMD


Gulwadi:1991:RSR


Guillaumont:1995:DAR


REFERENCES


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. [CCJ+34], pages 289–335. LCCN ????: Publié par la commission administrative de l’institut.


REFERENCES


REFERENCES


REFERENCES


REFERENCES

harvard.edu/abs/1930Natur.126..348H; http://www.nature.com/nature/journal/v126/n3175/pdf/126348b0.pdf. See [Rut29g].

Hon:2003:PSE


Houtermans:1930:NAQ


Howorth:1958:PRA


Harding:1977:RA


Hahn:1939:NVB

Otto Hahn and Fritz Strassmann. Über den Nachweis und das Verhalten der bei der Bestrahlung des Urans mittels Neutronen entstehenden Erdalkalimetalle. (German) [Concerning the existence of alkaline earth metals resulting from the neutron irradiation of uranium]. *Naturwissenschaften*, 27(1):11–15, January 1939. CODEN NATWAY. ISSN 0028-1042 (print), 1432-1904 (electronic). A facsimile is also available in [Bey49, pages 87–91] and in [Gra64]. Abridged English translation in [GA71, pages 44–47].
REFERENCES


REFERENCES

Hughes:2012:RRO


Hamm:1984:SIG


Huang:1992:URB


Hey:1996:EM


Hwang:1982:ALP


Hwang:1983:EAL

Huang:2015:MLI


Igarashi:1994:IBB


Ihde:1964:BRR


Izawa:2011:EIT


Ishibashi:1983:SUS


Ichihara:2009:HRR

REFERENCES


Jacobs:1972:LR


Jaffe:1971:MNE


Jaffe:1972:MNE


Jaki:1979:RBW


Jarlskog:2008:LRN


Jeynes:2012:ADQ

REFERENCES


REFERENCES


[Kaempffert1936:UTS] Waldemar Kaempffert. 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/.


[Kapicy1973:RUU] P. L. Kapicy. Rezerford — ucenýj i ucitel’ : k 100-letiju so dnya roždenija. (Russian) [Rutherford — scientist and
REFERENCES

teacher: the 100th anniversary of his birth]. Nauka, Moscow, Russia, 1973. 211 pp. LCCN ?????

Kapitza:1974:ETP


Katzir:2012:WKP


Katzir:2015:MWB


Kauffman:1986:FSE


Kay:1963:RRB

REFERENCES

Karwacki:1993:MDF


Klockenkamper:2005:NSD


Krusin-Elbaum:1987:OSR


Kent:1963:FS


Kozanecki:1991:RBL


Kramers:1923:ABT

REFERENCES

With a foreword by Sir Ernest Rutherford. Translated from the Danish by Robert Bruce Lindsay and Rachel T. Lindsay.

Kuhn:1967:SHQ


Kim:2002:LCH


Kistiakowsky:1982:FA


Kobayashi:1989:ESQ


Kugel:1985:NBS


REFERENCES


REFERENCES


[Laing:1937:ERO]


[Lau37] William L. Laurence. Lord Rutherford, physicist, is dead: British Nobel Prize winner, 66, famous as atom-smasher,

**Lu:2004:DDS**


**Leo:1991:SCC**


**Lee:1998:ERA**


**Lindsay:1965:RSA**


**Leone:2005:HNT**

REFERENCES


REFERENCES


REFERENCES


REFERENCES


MacGregor:2011:ERH


Makower:1908:RST


Malley:1971:DBP


Mann:1976:LRG


Mantri:1977:SAE


Mancini:1982:RBA

REFERENCES

Marsden:1938:ERO


Marsden:1954:RML


Marcley:1961:ADP


Marquez:1972:DRS


Massey:1972:NPT


Miles:1985:FNZ


Madakson:1990:ABG

[MB90] Peter Madakson and John Bruley. Analysis of buried GaAs layers in 100 silicon by electron energy loss spectroscopy,

**[MBS+04]**


**[McG84]**


**[MCJK90]**


**[McK62]**


[MD67] Walt McDayter and Norman Drew. The giants: The bomb builders. *Denver Post*, ??(??):??, February 3, 1967. URL http://library.ucsd.edu/dc/object/bb0103915g. This 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.


REFERENCES

Hess:2007:BEN


Moseley:1912:RRB


Marshall:2003:ERT


Marshall:2004:R


Mommsen:1980:RRA


REFERENCES


REFERENCES


REFERENCES


REFERENCES


**Needham:1938:BMS**


**Needham:1940:BMS**


**Okumura:1998:GPR**


**Oehrlein:1986:RBS**


**Oesper:1970:BRR**

REFERENCES


REFERENCES


REFERENCES

JAPIAU. ISSN 0021-8979 (print), 1089-7550 (electronic), 1520-8850.


Prieto:2006:QA


Pierson:1988:PTR


Podgorsak:2010:RPM


Podgorsak:2010:RBM


Polak:1960:EQA

L. S. Polak. Die Entstehung der Quantentheorie des Atoms (Das Rutherford–Bohrsche 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.

Pollard:1991:NP

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.


Rutherford:1902:ERA

Rutherford:1902:ERI

Rutherford:1945:UAA

Rutherford:1929:DSA

Radvanyi:2013:DBP
Ramage:1975:CDR


Raz:1963:BRJ


Rutherford:1901:NGR


Rutherford:1902:CRR


Rutherford:1902:NGR


Rutherford:1903:HERa

REFERENCES


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


REFERENCES

Reed:2006:SLV

Reeves:2008:FNF

Reed:2015:ABS

Reed:2015:BS

Reed:2016:BRL

Reisenfeld:1971:RC


REFERENCES


REFERENCES


[RG08b] Ernest Rutherford and Hans Geiger. La charge et la nature des particules α. (french) [The charge and nature of α particles]. Radium (Paris), 5(9):265–271, September 1908. CO-
REFERENCES

DEN RADMA2. ISSN 0370-3223 (print), 2437-2455 (electronic). URL http://radium.journaldephysique.org/articles/radium/abs/1908/09/radium_1908__5_9_265_0/radium_1908__5_9_265_0.html.

Rutherford:1908:MEN


Rutherford:1908:CNP


Rutherford:1908:IMC


Rutherford:1909:LNT

REFERENCES


REFERENCES


[RL07] Ernest Rutherford and Max Levine. *Radioaktive Umwandlungen*. (German) [Radioactive transformations], volume 21 of *Wissenschaft einzeldarstellungen aus der Naturwissenschaft und der technik*. Friedrich Vieweg und Sohn, Braunschweig,
REFERENCES


[RM00b] Ernest Rutherford and R. K. McKling, [i.e., McChung]. Über die Energie der Becquerel- und Röntgenstrahlen und über die zur Erzeugung von Ionen in Gasen nötige Energie. (German) [Energy of Röntgen and Becquerel rays and the energy required to produce an ion in gases]. Physikalische Zeitschrift, 2(4):53–55, October 27, 1900. CODEN PHZTAO. ISSN 0369-982X. URL http://hdl.handle.net/2027/mdp.39015068319659?urlappend=%3Bseq=73.


[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. Barnard, F.R.S., Dr. Kenneth M. Smith, Dr. W. E. Gye, Professor J. C. G. Ledingham, F.R.S., Dr. R. N. Salaman, Profes-
REFERENCES


[RO99] Professor Ernest Rutherford, M.A., B.Sc. and Professor Robert B. Owens, E.E. II. thorium and uranium radiation. Transactions of the Royal Society of Canada, 5 (Section III):9–12, May 26, 1899. CODEN TRSCAI. ISSN 0035-9122. URL http://tinyurl.com/pw5lo8z; http://www.biodiversitylibrary.org/page/10793245. This paper contains the discovery of radon, before Pierre and Marie Curie (1899), and Ernst Dorn (1900). See [Bre00].
REFERENCES


REFERENCES


REFERENCES

tandfonline.com/doi/abs/10.1080/14786440808636511.

1080/14786441108636558.


[R09a] Ernest Rutherford and Thomas Royds. Nature des particules $\alpha$ des substances radioactives. (french) [Nature of $\alpha$ particles from radioactive substances]. Radium (Paris), 6 (2):47–50, February 1909. CODEN RADMA2. ISSN 0370-
journaledephysique.org/articles/ radium/abs/1909/02/
radium_1909__6_2_47_1/radium_1909__6_2_47_1.html.


chemicalnewsjour99londuoft#page/49/mode/1up.
REFERENCES


[R13a] Ernest Rutherford and Harold Roper Robinson. Über die Masse und die Geschwindigkeiten der von den radioaktiven Substanzen ausgesandeten 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.


REFERENCES


REFERENCES

Rutherford:1914:SRE


Rutherford:1902:UNR


Rutherford:1902:CNRc


Rutherford:1902:LRT


Rutherford:1902:CPT

REFERENCES


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


[Rutherford:1903:RU] Ernest Rutherford, M.A., D.Sc. and Frederick Soddy, M.A. The radioactivity of uranium. Philosophical Magazine (6), 5
REFERENCES


**Richtmyer:1927:ECC**


**Rutherford:1909:XDD**


**Rubinin:1997:NBP**


**Russell:1937:MAL**


**Russell:1951:LRM**

REFERENCES


REFERENCES

Rutherford:1896:MDEa


Rutherford:1897:XEG


Rutherford:1897:MDE

[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).

Rutherford:1897:LVR


Rutherford:1898:DEU


Rutherford:1899:URE


[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

Ernest Rutherford. Einfluss der Temperatur auf die Emanationen 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-
Rutherford:1903:AEH


Rutherford:1903:MEA


Rutherford:1903:RAO


Rutherford:1903:XRU


Rutherford:1903:XSR


Rutherford:1903:XME

Ernest Rutherford. XV. The magnetic and electric deviation of the easily absorbed rays from radium. *Philos-
REFERENCES


[Rut03g]


[Rut04a]


[Rut04b]


[Rut04c]


[Rut04d]


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---

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

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Rutherford:1904:BLS


Rutherford:1904:DRE


Rutherford:1904:LST


Rutherford:1904:RERc


Rutherford:1905:CCR


Rutherford:1905:UZR

Ernest Rutherford. Der Unterschied zwischen radioaktiver und chemischer Verwandlung. (German) [The difference between radioactive and chemical transformation]. *Fiz. Obezr.*, Varsava, 6(??):20–40, ???. 1905.
REFERENCES


REFERENCES


Rutherford:1905:XCC


Rutherford:1905:XST


Rutherford:1905:BLS


Rutherford:1906:ARA


Rutherford:1906:DID

REFERENCES


[Rut06i] Ernest Rutherford. Über einige Eigenschaften der α-Strahlen des Radiums. (German) [On some properties of α rays of
REFERENCES 200


REFERENCES


[Rut07g] Ernest Rutherford. Über Masse und Geschwindigkeit des von Radium und Aktinium ausgesandten α-Teilchens. (German)
[On the mass and velocity of $\alpha$-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]


[Rut08a]

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


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


REFERENCES


[Rut11j] Professor Ernest Rutherford, F.R.S. The scattering of the α and β rays and the structure of the atom. *Proceed-


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


[Rut13b] Ernest Rutherford. Handbuch der Radiologie. 2. Radioaktive Substanzen und ihre Strahlungen. (German) [Handbook of radiology. 2. Radioactive substances and their radiations]. Akademie-Verlag, Berlin, Germany, 1913. ix + 642 pp. LCCN ???? Translation to German by Adolf Bestelmeyer.

REFERENCES

abs/1913Natur..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


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


REFERENCES


REFERENCES


REFERENCES


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


REFERENCES


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


REFERENCES


Rutherford:1922:RPIa


Rutherford:1922:RPIb


Rutherford:1922:RPIc


Rutherford:1922:RPId


Rutherford:1922:RPIe


Rutherford:1922:RPIf


Rutherford:1922:EMc


Rutherford:1923:APTa


REFERENCES


1923. CODEN ????. ISSN 0883-1610 (print), 2330-5908 (electronic).

**Rutherford:1923:ESMc**


**Rutherford:1923:ESMb**


**Rutherford:1923:PAE**


**Rutherford:1924:ESMa**


**Rutherford:1924:ESMb**

Ernest Rutherford. Die elektrische Struktur der Materie. (German) [The electrical structure of matter]. *Strahlentherapie*, 16(??):883–913, ????? 1924.

**Rutherford:1924:EDR**

REFERENCES


[Rut24k] Professor Sir Ernest Rutherford, F.R.S. The natural and artificial disintegration of the elements. *The Scientific


REFERENCES

Rutherford:1925:SAa

Rutherford:1925:SAb

Rutherford:1925:SANa

Rutherford:1925:SANb

Rutherford:1925:TR
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.”.

Rutherford:1925:ESM

Rutherford:1926:LSE
REFERENCES


REFERENCES


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).

Rutherford:1928:APSa


Rutherford:1928:OPB


Rutherford:1928:PPH


Rutherford:1928:TMPa


Rutherford:1928:TMPb

REFERENCES


REFERENCES


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...


[Rut32b] 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.

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:R**


**Rutherford:1935:AP**


**Rutherford:1935:NR**


**Rutherford:1935:ERP**


**Rutherford:1935:ERP**


**Rutherford:1935:ERP**


REFERENCES


[Rut36f] Ernest Lord Rutherford. *Radioaktivität und Atomtheorie*. (German) [Radioactivity and atomic theory]. ???, ????, 1936. 17 pp. LCCN ????


[Rut36k] Ernest Rutherford, President of the Academic Assistance Council. A society for the protection of science and

[Rutherford:1937:NAB]


[Rutherford:1937:NAT]


[Rutherford:1937:SD]


[Rutherford:1937:SIH]


[Rutherford:1937:THEa]

Rutherford:1937:THEb


Rutherford:1937:RAT


Rutherford:1938:FYP


Rutherford:1938:NAC

Ernest Rutherford. *Novodobá alchymie. (Czech) [The new alchemy]*, volume 9 of *Elektrotechnicka knihovna*. Elektrotechnický svaz Československý, Praha, Czechoslovakia, 1938. 53 + i pp. LCCN ????

Rutherford:1938:JMI


Rutherford:1938:TMa

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,

**Schuster:1933:BF**


**Schrodinger:1957:STM**


**Schwinger:1958:SPQ**


**Schwarz:2013:ABM**


**Shih:1991:TFI**


REFERENCES


[She83b] William R. Shea, editor. *Otto Hahn and the Rise of Nuclear Physics*, volume 22 of *The University of Western On-
**REFERENCES**


REFERENCES

Simons:1982:URB


Sime:1996:LML


Sinclair:1981:BRR


Sindzingre:1993:PEC


Skulina:1989:CAG


Seaborg:1990:EBU

REFERENCES


Slotte:2000:IST


Smeltzer:1997:RRR


Smeltzer:1997:LRR


Smi37


Schrodinger:1935:SHTa


Schrodinger:1935:SHTb

REFERENCES

+ 27–192 pp. LCCN 7???. Foreword by Lord Rutherford of Nelson.


[Sod13] Frederick Soddy. Intra-atomic charge. *Nature*, 92(2301):399–400, December 4, 1913. CODEN NATUAS. ISSN 0028-0836 (print), 1476-4687 (electronic). URL http://www.nature.com/nature/journal/v92/n2301/pdf/092399c0.pdf. This 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.”


[Sod22] Frederick Soddy. *The interpretation of radium and the structure of the atom*. Putnam, New York, NY, USA, fourth re-


REFERENCES


REFERENCES


REFERENCES


### Errata

- [Ano94]: See errata
- [Lee98]: See errata
Swann:1940:BRR


Stahl:1965:T


Shao:2005:OEW


Szymborski:1985:LRK


Tabet:1997:DTA

REFERENCES


**Trenn:1974:GMS**


**Thompson:2011:DDS**


**Thomson:1903:CET**


**Thomson:1906:CET**


**Thomson:1937:ORHa**

REFERENCES


REFERENCES


Tammen:1995:IIS


Todd:2014:BHL


Thomson:1896:XPE


Trenn:1971:RSS


Trenn:1971:RED


Trenn:1973:BRR


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.


[VV09] V. Voinov and E. Voinov. A statistical reanalysis of the classical Rutherford’s experiment. Communications in Statistics:
REFERENCES


REFERENCES


REFERENCES


REFERENCES

Wilson:1974:ATP


Wilson:1983:RSG


Wilson:1983:CAS


Winton:1994:CXR


Wittmaack:1988:SEA


Weyland:2001:ETN

REFERENCES


REFERENCES


REFERENCES

Young:1997:RSD


Yatsurugi:1984:SSH


Yuhara:1992:PTS


Ziegler:1974:DBI


Zhou:2012:DPT


Ziman:1969:RMLa

Society A: Mathematical, Physical, and Engineering Sciences, 311(1506):349–369, 1969. CODEN PRLAAZ. ISSN 0080-4630 (print), 2053-9169 (electronic). URL http://rspa.royalsocietypublishing.org/content/311/1506/349. Lecture delivered at the University of Delhi, India, on 2 December 1968, during a tour of scientific institutions in India and Pakistan, as a guest of the Indian University Grants Committee and of the Pakistan Atomic Energy Commission.

Ziman:1969:RMLb


Zhang:2002:DER