A Complete Bibliography of Publications in *IEEE Spectrum* (2020–2029)

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23 August 2025
Version 1.42

Title word cross-reference

$ [Ulr20b]. **$1** [Pot20b]. **$100** [Cha25b, Sch22a, Sch22d, Sch25b]. 3 [And20f]. **$74** [GA20]. > [Coo22, Gen22]. ^{2} [Cas23c]. X [Cas25b]. Y [Cas25b].

000-Qubit [Cho23].

1 [Ano20-51, Koz23d, Ros21]. **1-Trillion-Transistor** [LW24]. **10-Year** [Ack25b]. **100** [Cas22f]. **100th** [Moo22c]. **118** [Smi20h]. **143-Year-Old** [Zor22c]. **1800s** [Ano20-78]. **19** [And20b, Cha20a, Gib21, Ham20a, Has20a, Hut20, NS20, Per20a, Pes20e, Pes21a, Pre20, SHD20, SZ20, Wal22, YS20]. **1935** [Bro22b]. **1950s** [Hoc22]. **1970** [McC20]. **1970s** [Cas25b]. **1990s** [RC25].

2 [Sch21e]. **2-in-1** [Mar25b]. **2.0** [Moo24b, WB21]. **200-Year-Old** [Smi21f]. **2020** [Ano20t]. **2021** [Ano21-115]. **20th** [Moo20c]. **22** [Bro22b].

3D [BF24, Moo22a, Moo24d, SC23]. **3D-Chip** [Moo24d].

5 [Ros20a]. **536** [Bre20]. **5G** [Hig20i, Koz21b].

6G [Web25]. **6G's** [Pou22].

70-Year-Old [Cly24]. **75-Year-Old** [Abb23].

= [BSAH21, Pal22].

A.A.C. [Smi20h]. **Aakhilesh** [Gen24d]. **Aalyria** [Koz23b]. **Able** [Smi21e]. **Accelerating** [Ulr21, Gar20]. **Accelerator** [Boy24]. **Accelerators** [Gen24l, Gar20]. **Access** [Smi22a, Gol22b, Koz21a, Ano21-57, Ano21-58, Ano22-59]. **Accident** [Har21, Ros22a]. **Accordingly** [KK21]. **Accurately** [Sla21]. **Act** [Ack22a, Moo24e, Moo25, Pat23a]. **Act-Funded** [Pat23a]. **actions** [RS23]. **Activity** [Sla21]. **Actorless** [MWS+25]. **Actually** [Goo25, SG24, Smi21k]. **AD** [Mar24k]. **AD-X2** [Mar24k]. **Adam** [Der22a]. **adapt** [ALRW21]. **adaptations** [Gol24e]. **add** [Zel20]. **adds** [Gol22f]. **Adeshina** [Lau25]. **ADHD** [And20e]. **Adieu** [Gol24c]. **Adjusted** [Per22c]. **Administers** [KK21, Ano20h]. **adopting** [Ras20b]. **Adrian** [Ano21a]. **Ads** [Ano21-61]. **Advanced** [Kon24, Arm20]. **Advances** [And20c, MCG24, WAC+20, Moo20b, Pes21a]. **advancing** [Nor20a]. **Advantage** [Jag22]. **Advertisement** [Ano20-103, Ano20-104, Ano21-27, Ano21-29, Ano21-30, Ano21-28, Ano21-31, Ano21b, Ano21c, Ano21d, Ano21e, Ano21f, Ano21g, Ano21h, Ano21i, Ano21j, Ano21k, Ano21l, Ano21m, Ano21n, Ano21o, Ano21p, Ano21q, Ano21r, Ano21s, Ano21t, Ano21u, Ano21v, Ano21w, Ano21x, Ano21y, Ano21z, Ano21-63, Ano21-111, Ano21-57, Ano21-58, Ano21-128, Ano21-59, Ano21-137, Ano21-141, Ano21-145, Ano22-46, Ano22-47, Ano22-49, Ano22-48, Ano22-50, Ano22-51, Ano22a, Ano22b, Ano22-27, Ano22-28, Ano22-29, Ano22-30, Ano22-31, Ano22-32, Ano22-33, Ano22-34, Ano22-35, Ano22-36, Ano22-37, Ano22-38, Ano22-39, Ano22-40, Ano22-41, Ano22-42, Ano22-43, Ano22-44, Ano22-45, Ano22c, Ano22d, Ano22e, Ano22f, Ano22g, Ano22h, Ano22i, Ano22j, Ano22k, Ano22l, Ano22m, Ano22n, Ano22o, Ano22p, Ano22q, Ano22r, Ano22s, Ano22t, Ano22u, Ano22v, Ano22w]. **Advertisement** [Ano22x, Ano22y, Ano22z, Ano22-59, Ano22-131, Ano23b, Ano23c, Ano23-28, Ano23-29, Ano23-30, Ano23-31, Ano23-32, Ano23-33, Ano23-34, Ano23-35, Ano23-36, Ano23-37, Ano23-38, Ano23-39, Ano23-40, Ano23-41, Ano23-42, Ano23-43, Ano23-44, Ano23-45, Ano23-46, Ano23-47, Ano23-48, Ano23-49, Ano23-50, Ano23-51, Ano23-52, Ano23-53, Ano23d, Ano23-54, Ano23-55, Ano23-56, Ano23-57, Ano23-58, Ano23e, Ano23f, Ano23g, Ano23h, Ano23i, Ano23j, Ano23k, Ano23l, Ano23m, Ano23n, Ano23o, Ano23p, Ano23q, Ano23r, Ano23s, Ano23t, Ano23u, Ano23v, Ano23w, Ano23x, Ano23y, Ano23z, Ano23-27, Ano23-59, Ano24a, Ano24b, Ano24-27, Ano24-28, Ano24-29, Ano24-30, Ano24-31, Ano24-32, Ano24-33, Ano24-34, Ano24-35, Ano24-36, Ano24-37, Ano24-38, Ano24-39, Ano24-40, Ano24-41, Ano24-42, Ano24-43, Ano24-44, Ano24-45, Ano24-46, Ano24-47, Ano24-48, Ano24-49, Ano24-50]. **Advertisement** [Ano24-51, Ano24-52, Ano24c, Ano24-53, Ano24-54, Ano24-55, Ano24-56, Ano24-57, Ano24-58, Ano24-59, Ano24-60, Ano24d, Ano24e, Ano24f, Ano24g, Ano24h, Ano24i, Ano24j, Ano24k, Ano24l, Ano24m, Ano24n, Ano24o, Ano24p, Ano24q, Ano24r, Ano24s, Ano24t, Ano24u, Ano24v, Ano24w, Ano24x, Ano24y, Ano24z, Ano25a, Ano25b, Ano25c, Ano25d, Ano25e, Ano25f, Ano25g, Ano25h, Ano25i, Ano25j, Ano25k, Ano25l, Ano25m, Ano25n, Ano25o, Ano25p, Ano25q, Ano25r, Ano25s, Ano25t, Ano25u, Ano20p, Ano21-120, Ano21-144, Ano22-55]. **Advertisements** [Ano20a, Ano20b, Ano20c, Ano20d, Ano20e, Ano21-32]. **Advice** [Gen25c, Ros25]. **advocates** [Gen23c]. **Aerial** [Mie24]. **aerosol** [Ano20h]. **Aerospace** [Gen24e, Pot24, JAR24]. **Affair** [Mar24k]. **affects** [Smi22d]. **Affordable** [WPBS23]. **Africa** [Smi22a]. **African** [Fai21, Moo20c]. **After** [Gol25b, Zor20, Zor22d, Hoc22, Ros20a, Smi20h, Zor23b]. **Afterlife** [WC23]. **Aftermarket** [Usk21].

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[And20h]. **Destroyed** [Mar23j, Moo20c]. **destructiveness** [Smi22i]. **Detailed** [Sch24b]. **Detect** [Sch22a, Sch23a, Sch24a, WB21]. **Detecting** [Mar23j]. **Detection** [Baj22]. **Detector** [Cas24f, Goo25, Jon23i, Kuh24, Wal20b]. **Detects** [Sch25a]. **Determine** [Gol25e]. **Deterrence** [Baj22]. **develop** [Per20e]. **developers** [Per20j, Wea20]. **Development** [Ash23, Hsu20a, Zdr25, Zor20]. **Developments** [JPWB21, MJH+21, SAS+21, CKG+21]. **Device** [Gen24m, Gol22c, KK21, Moo22c]. **devices** [Ano21-91, Arm20, MW20]. **Diabetes** [CZ25]. **diagnostic** [YS20]. **Dialogue** [CD21]. **Diamonds** [Gen25a]. **Did** [Bro23c]. **Didn't** [Bro23c, Cas20g]. **Dies** [Rak25b]. **difference** [Pat24b]. **Different** [Dol23b, Ack23d, Cas23d]. **dig** [Gal20a]. **Digital** [Bow21, Cas24b, Cas25b, Der23d, Dum20, Gol25f, HS23, Per25, Rak25a, Smi23c, Smi25, WC23, Koz23b, Mar20a, Str24b, Zel20]. **dilemma** [Hsu20b, Bro22d]. **dimension** [Per20c]. **Diminishing** [TGLM21]. **dioxide** [Ano20-100]. **direct** [Gal21b]. **direct-air** [Gal21b]. **direction** [RK22]. **disabilities** [Sac20]. **Disability** [Ano21-121]. **Disappear** [Poo24b, Per21b]. **disappeared** [Fru20]. **disaster** [Cha20a]. **Disastrously** [Cho21]. **Discounts** [Ano21-117, Ano21-118, Ano21-119, Ano20-71, Ano21-120, Ano22-123]. **Discover** [Ack25b]. **discovery** [Scu20b]. **discrimination** [Per20i]. **Dish** [Cas25a, Sch24a]. **disinfected** [Ano20-68]. **disinformation** [Str24b]. **Disks** [Ake23]. **Disney** [Gen23b]. **Disorders** [Dol23a]. **Disparate** [Der21e]. **Display** [Mie24, Som21, ZL20b, Cas20e, Cas22f, Mie22]. **Displays** [Gan24, Pal22, Per21a]. **Disrupt** [FK21]. **disruptors** [Bro22d]. **disrupts** [Ham20a]. **Distance** [Jaf22]. **Distanced** [Ano21-142]. **distances** [Jaf22]. **Distant** [Sch23a]. **distillery** [Str23]. **Distinguish** [Pep25, LCBH20]. **distribute** [Gib21]. **Divan** [Gol25d]. **Dive** [Cal22]. **divide** [Koz23b]. **divided** [Koz21b]. **Divya** [Der21g]. **DIY** [Bor24, Cas20d, Cas22a, Cas25a, Cop25, Gol23e, Lew23, Pau22, Ros22b, Sch20b, Sch22d, Sch25a, Sla21, Tem20, Wat24]. **DNA** [Abb23, BF24, Car24]. **DNS** [Ras20a]. **Do** [Gar25, GK24, PRR23, Pow24, SHP24a, SG24, Cas23a, Gal20b, Wal20a]. **Do-or-Die** [PRR23]. **Docker** [Cas21c]. **Does** [Pre20]. **Doesn't** [Hus24]. **dog** [GA20]. **Doing** [RC25]. **Dollar** [Per24b]. **Domestic** [GK24]. **dominance** [Ulr20c]. **Dominant** [Smi25]. **Don** [Zor24b]. **Done** [BSAH21, Per20h]. **Don't** [Gen24a, Smi21d, Smi21e, Smi21f, Smi21b, Smi21c, Smi21g, Smi21h, Smi21i, Smi21j, Smi21k, Smi22a, Smi22b, Smi22c, Smi22e, Smi22j, Smi24, BS22, Smi22i]. **Doom** [Ano21-62]. **door** [Lew20]. **Doorstep** [RZ21]. **doses** [Gib21]. **dot** [Scu20a]. **Dots** [Pal22, PK20]. **Double** [CP21, Moo22b, Sch20c]. **double-backup** [Sch20c]. **Doubles** [Gol24b]. **Down** [Gol24b, Gol24i, Rak25b, Som21, Rae20, Fai23b]. **Downed** [Sch22b]. **Downs** [Moo21]. **Doyen** [Gol24c]. **drag** [Per20m]. **Dragon** [Cha21b]. **Dragonfly** [Cha21b]. **Draw** [SSJ+25]. **Dream** [Hoc22, Smi21f]. **Dreamed** [Gen25d]. **Dressed** [CP21]. **drills** [Gal20a]. **drinking** [Smi20e]. **Drive** [Str22b, Ack21a, Ano20-69]. **driven** [Hig20b]. **driver** [Har22, Wea20]. **driverless** [Per20l]. **Drivers** [Cal24]. **Drives** [Ros23b]. **Driving** [Mar23k, WPBS23, And20g, LG20, Pan20, Smi23a]. **Drone** [Tei23, DM20, Pot20a, Ros22d]. **Drone-Based** [Tei23]. **Drones** [Ack23c, Bau24, Cla24, Gen24e, Gol24b, Ros23b, DM20, Gen24h, Sch20a]. **Dropout** [Bow21]. **Dropped** [Cal24]. **Drops** [Per22c]. **Drove** [Moo23a]. **drug** [Scu20b]. **Dual** [Kas23]. **Dual-CPU** [Kas23]. **Dug** [Cal24].

Dumpster [Cal22]. **Duo** [SH22a]. **Duolingo** [BBS23]. **during** [Arm20, Cha20a, NS20]. **Duty** [Der23a]. **DVDs** [Nor20a]. **Dynamic** [Ack25b, SH22a]. **Dynamics** [Ack22b].

E-Bike [Sch21d]. **E-Paper** [HF22]. **Each** [Gol23g]. **Eagles** [Wal25a]. **Ear** [Ack25a, Lew23]. **Early** [PRR23, Koz20c]. **Earn** [Ano20-93]. **ears** [Hoc22]. **Earth** [AF23, Bar24, ROK24, BMRW20, Ano20-85, Ano24-145, Dum20, WB21, Zor22b]. **Earth-like** [WB21]. **Earthquake** [Mar23j]. **Earthquakes** [Mar23j, Sch23a, Sch25a]. **Easier** [Cas21c, Coo21, Gen24k]. **Easy** [Sch21d, Smi21n, Tho21a, Cas20d]. **Eat** [Smi22h]. **Eating** [Smi22h]. **Eavesdropping** [Ama25, Dut22, Hoc22]. **Echo** [Has20b]. **economic** [Fun20]. **Economics** [Ros23b]. **Economy** [Sch23b]. **ED** [Wea20]. **edge** [Hig20d]. **Editor** [Zor24b]. **Editorial** [Zor23b]. **Educational** [Str25a]. **Edwin** [Zor22c]. **EE** [Der23b]. **Effect** [Zor22c]. **effective** [Hsu20b]. **efficiency** [Sch21a]. **Efficient** [Cha21b, PSD22]. **eight** [Ack24d]. **Eighth** [Cas21d]. **Eileen** [Der23b]. **Either** [Cas23b, Cha23]. **Election** [Str24b]. **Electric** [Ano22-56, MMP22, Mar21k, Mar22i, Smi21e, Smi21j, Ulr21, Ulr22, Wal21, And20c, Ano20r, Ano20-69, Cri20, Gol22f, JAR24, Ulr20b, Ulr20c]. **electric-vehicle** [Gol22f]. **electrical** [Ano20-86]. **Electricity** [AFH22, Ano20-45, Mar21i, Smi22a, Smi22j, Zee25, Fai23b, Smi22g]. **Electrification** [Mar25f]. **Electrified** [GP22]. **Electrifying** [Der23a, Sch21d]. **Electrifyingly** [Sch21d]. **electrodes** [Dut22, Wal24b]. **Electrolysis** [MD23]. **electrolytes** [And20c]. **Electromechanical** [Pau21, TB21]. **Electronic** [Ama25, Cha25b, CP21, Mar24a]. **Electronically** [Sch24b]. **electronics** [AMK+20, Som21]. **Electrons** [Boy24]. **Electrostatic** [Mar23c]. **Eliminates** [BBFS22]. **Elon** [Smi21f]. **Else** [Lev21]. **elusive** [Cly22, Luc20a]. **embed** [Cas20d]. **embedded** [Ano20-90]. **Embeds** [Gen24m]. **Embracing** [Has20a]. **emerged** [Zor22a]. **Emergency** [Ano20-46, Ros22c]. **Emerges** [Moo23b]. **Emissions** [Smi22c, Gal21a, Gal21b]. **emotional** [CHM21]. **emotions** [HVW20]. **EMP** [Wal24a]. **EMP-Proof** [Wal24a]. **employer** [Ano20-95]. **Empower** [Ack23b]. **emulate** [BBS23]. **Emulated** [Reg23]. **Enable** [Gan24, NYI24]. **Enabled** [Pau22]. **Enabling** [Ong20]. **Encrypted** [Moo24c, Ras20a]. **Encryption** [Cop25, Gen25f, Pau21, Koz20c, Moo24c]. **End** [Pes21a, Per20a, Smi22d]. **ended** [Ros20a]. **Ending** [Has20a]. **Energiewende** [Smi20d]. **Energy** [BSAH21, Cly24, Gar20, Gen25g, GP22, KH24, Moo21, Mos25, SC23, Smi22b, Smi22f, Wal25b, Zee25, Cha24, Fai23c, Ham21, Jaf22, MMP22, Smi22k, Cly22]. **enforcer** [Zor23a]. **Engine** [Col25]. **Engineer** [Der21g, Gen24a, Gen24e, Gen24d, Gen24j, Gen24l, Gen25g, Gol23h, Kim22, Lau25, Ano20-47, CD21, Gen23a]. **Engineered** [And20b, Cas20h]. **Engineering** [Ash23, Der21d, HPK22, JPWB21, MJH+21, NS20, Per24b, SAS+21, Ano20-86, Cas20b, CKG+21, CFPP22, Koz24b]. **Engineers** [FK21, Gar25, Gen25h, Gol22d, Gol25h, Mos25, Per22c, Gen23c, NS20]. **engines** [Gal21a]. **England** [Jon23d]. **Enhanced** [Gol21]. **Enhancing** [Ack22a]. **Enough** [MMP22, Cha24, Gal21b, Gib21]. **Ensure** [JKW25, Der22f]. **ensures** [Der21d]. **Entangled** [Ros22e]. **Enters** [Cas25b, WPBS23]. **enthralls** [Smi23b]. **entire** [Sha23]. **entrepreneur** [Ano21a, Goo23a]. **Entry** [Dum23]. **Environment** [Cha21a]. **Environmental** [Cab24]. **environments** [BMRW20]. **Envoy** [Mar22k]. **Equals** [Ake23]. **Equiano** [Koz21a]. **Equipment** [Hec20]. **equipped**

[Sch20b]. **Era** [Cas22g, Shi22, Smi22a, Wal21, Bro22b, Sch22e]. **Eraser** [Mar25f]. **Erickson** [Gen24e]. **Erika** [Gen24f]. **Error** [BS22]. **Escape** [Bor24, ROK24]. **Escapes** [GPUB25]. **Essential** [Cor21a, Mos25, Ano20-68]. **Estonia** [Str25a]. **Ethical** [Ros25]. **Ethics** [Ros25]. **Eugene** [Der23c]. **Europa** [Cha21a]. **Europe** [Dum23, Fai24a, Ros22c, Ros22d, Zee25]. **EUV** [Boy24, SSB25, Van23]. **EV** [And20c, Cha23, Col25, Gen24g, GH23, Gol23h, RC25, Smi23a]. **evangelizing** [Per23]. **Even** [Cas23c, Gen25f, Per20g, Sch23a, Szk21, BMRW20]. **Event** [Lau24b, Ano20t, Bou20]. **Ever** [NYI24, Dut22, Pri21]. **Every** [Har22, Smi22d]. **Everyone** [Ack25a]. **Everything** [Gol22c, Gol25g, Hig20b, Hig20d, Hig20e, Hig20f, Hig20h, Hig20i, HP21a, HP21b, HP21e, HP21f, HP21c, HP21d]. **Everywhere** [Gol23a, Per21c]. **Evolution** [Cha21b, Cas22e, Fun20]. **Evolve** [Wal22]. **Evolved** [Smi22h]. **EVs** [Cha24, Der22e, Dum22, Gol22f, MMP22, ROK24, Ulr20a]. **eVTOL** [AZPC22, Zor23a, Zor23c]. **eVTOLs** [ACDG21, NG23]. **Exascale** [Dum23, And20i, Sch22e]. **exceed** [Fai23b]. **Exceptional** [Pau21]. **Excess** [SB22a]. **Exclusive** [Ano20-71, Cop25]. **Existed** [Ack25b]. **exoplanet** [WB21]. **Exoskeleton** [Str25b, Ack20]. **Exotic** [ROK24]. **Expect** [Fun20]. **expectations** [And20g, Per20d]. **Expendable** [Col25]. **Experience** [Der22d, Gol21]. **experiences** [Der20]. **Experimental** [ROK24]. **experiments** [Cas20g, Ham20a]. **Expert** [Der23d, Mar23k, Rak25b, Ros25]. **Experts** [Gal21b]. **Exploding** [Jag22, SSB25]. **Explore** [Gol25h]. **Explorers** [Der22g]. **Explores** [HPK22]. **expressions** [HVW20]. **extension** [Red20]. **Extra** [FBMI23]. **Extreme** [Gol24h, Smi22e]. **Extremely** [ACDG21]. **Eye** [Ano24-144, Zor22e, Sch20d]. **Eyeballs** [Gen23e]. **Eyewear** [Ano21-114]. **EZ** [Mie22].

Fab [Ano22-108, Aro24, Moo24e]. **Fabs** [Pat23a]. **Facebook** [HS23, Str20a]. **faced** [BMRW20]. **Facial** [Abb23, HVW20]. **Factor** [Gen23d]. **facts** [Ano20u]. **faculty** [Ano20-86]. **fades** [Pes21a]. **Fail** [Cho21, Cha20b, Raf20b]. **failed** [HS23, Pat24b]. **Fair** [McC20]. **Fake** [Fra21]. **Fall** [Mar25e]. **fallback** [Raf20b]. **False** [Eis23]. **famous** [Bou20]. **Fans** [Gal21b]. **fantasy** [Ano20-51]. **Far** [Fai23a, Gol25h, Ano20-49, PSD22]. **Faraway** [Sch25a]. **Farewell** [Mar24e, Zor23b]. **Farmers** [Gen24e, Gen25c]. **Farms** [Pat24a, Usk21]. **fascinating** [Gol22d]. **Fast** [Cha21b, Cly24, Gol25g, WPBS23, YS20, Ano20-49, Ano20-79, Smi22j]. **Faster** [Tow21, Ano21-91, CHM21, Gal20a, Per20e, Ros21]. **faster-than-sound** [Ros21]. **father** [Per20c]. **Feasibility** [Gol24a]. **Features** [Gol23g]. **Feedback** [Gan24]. **Feeding** [Ack25a]. **Feel** [Ack22a]. **Feels** [CHM21]. **Fell** [Gen25e, Ros22a]. **Ferrite** [Cas22g]. **Ferrite-Core** [Cas22g]. **fetch** [GA20]. **few** [LCBH20, ZL20b]. **fewer** [Sca22]. **Fi** [Gol24j, Koz24d, Lew23, Mie24, Cas22a, Gol24a, Hig20j, Zel20]. **fibers** [Hec20]. **Fiction** [Der21g, Jon22a, Zim21]. **fieldwork** [Ham20a]. **Fight** [Gol24i, Ras20a]. **Fighter** [Ros23a]. **fighting** [Der23c]. **Figure** [Jon22a]. **Figured** [Pau21]. **figures** [Mar20j]. **File** [PSD22]. **film** [Zel20]. **filter** [Ros20b]. **Final** [Ano20-48]. **finalist** [Ano20-100]. **Finally** [Cha24, Gar25, Gob23, GK24, Zor23c, Gol23d, Zor20, Zor22d]. **Find** [Gen25g, Gol25c, MD23, Pow24, Pri21]. **Finding** [Abb23, Gen25a, Zor20]. **Finds** [Gen23d]. **FinFets** [Per20c]. **Finish** [Gen24d]. **Finished** [Aro24]. **Fires** [Fit21].

First [Aro24, Gen24b, GPUB25, Goo25, Koz21b, Mar22l, Mar24g, Per24b, Ros22a, Ste21, SG22, Zor22a, Zor24a, And20b, And20e, Fru20, Jon24a, Mar20c, Mar20d, Pot20a, Sch22e, Zor23c]. **first-person** [And20e]. **Firsthand** [Mar23k]. **Fishing** [Her20, SJY25]. **Fission** [Jon23d, And20d]. **Fit** [Smi22l]. **Fitbit** [Per24b]. **Fitness** [Per24b]. **fits** [Mar20f]. **five** [Per23, Scu20b]. **Fix** [Smi21n, Str24a]. **Fixed** [Smi22l]. **Fizzling** [Col25]. **Flags** [Ros25]. **Flares** [Sch22a]. **Fledgling** [Lau25]. **Fleet** [Der22e, Raf20b]. **flesh** [SMD20]. **Flexible** [Der21e, Kir25]. **flier** [DM20]. **fliers** [Zor23c]. **flies** [Rae20]. **Flight** [Jon23j, Smi21e, Smi23b, Ano20-89, CD21, Fou22, Ros21]. **Flights** [Smi21e, Koz23d]. **Flipper** [Cas23b]. **Floats** [Mie24]. **floor** [Sch22c]. **Floppy** [Ake23]. **flourished** [Hoc22]. **Flow** [Cha24]. **flu** [SB22a]. **fluctuations** [Koz20c]. **flurry** [Pes21a]. **Flux** [GP22]. **Fly** [Cha21b, JAR24, Zor25a, Pot20a]. **flyer** [Pot20b]. **Flying** [Ano20-49, Ros20a, Ros22d, Zor23a]. **focus** [And20g]. **focuses** [Gol22d]. **fold** [ZL20b]. **followed** [Smi22j]. **Following** [Gol24d]. **Food** [Smi22f]. **Foosball** [Coh22]. **Footprint** [Smi22b]. **Forced** [Gen25d]. **Ford** [Col25]. **foreshadows** [Fai24a]. **foresight** [SZ20]. **Forest** [Fit21, PN20]. **forestry** [Ano20f]. **Forgetful** [Cho21]. **Forgotten** [Aro24, Mul24, Shi22, Smi22g]. **fork** [Per22a]. **form** [And20e]. **Former** [Ros23a, Zor24b, Gen23c]. **Formerly** [Pal22]. **Forming** [KH24]. **Formula** [Ano20-51]. **Forward** [Ano23-134, Bro23b, Cor21b, Goo23b, Goo25, MMM24, Mar20a, Mar20b, Mar20c, Mar20f, Mar20g, Mar20i, Mar21d, Mar21e, Mar21f, Mar21h, Mar21k, Mar21i, Mar21j, Mar21c, Mar21g, Mar22i, Mar22j, Mar22l, Mar22k, Mar22a, Mar22b, Mar22c, Mar22d, Mar22e, Mar22f, Mar22g, Mar22h, Mar23b, Mar23d, Mar23e, Mar23f, Mar23g, Mar23h, Mar23i, Mar24b, Mar24f, Mar24d, Mar24g, Mar24e, Mar24h, Mar24c, Mar24i, Mar24j, Mar25a, Mar25d, Mar25c, Mar25e, Mar25b, Mar25f, Bre20]. **Forword** [Mar24k]. **Fostered** [Gol24g]. **Fought** [Cal24]. **Found** [SH22b]. **Foundation** [Ano20-70, Ano21-31]. **Founder** [Ack24a]. **foundry** [Rak24a]. **FPGA** [Cas20f]. **Fractional** [AMK$^+$20]. **Fraden** [Koz24b]. **Frankel** [Koz24a]. **Free** [Tho21a, Per20f]. **freight** [DM20]. **frequency** [Bra21]. **Fried** [Cas23a]. **friendly** [Fru20, Pat22]. **Friends** [Mar24e]. **Front** [Ano20-53, Ano20-54, Ano20-55, Ano20-56, Ano20-57, Ano20-58, Ano20-59, Ano21-92, Ano21-93, Ano21-96, Ano21-103, Ano22-49, Ano22-48, Ano22-51, Ano22-112, Ano22-113, Ano22-114, Ano22-115, Ano22-116, Ano22-117, Ano22-118, Ano22-119, Ano22-120, Ano23-112, Ano23-113, Ano23-114, Ano23-115, Ano23-116, Ano23-117, Ano23-118, Ano23-119, Ano23-120, Ano23-121, Ano23-122, Ano24-119, Ano24-120, Ano24-121, Ano24-122, Ano24-123, Ano24-124, Ano24-125, Ano24-126, Ano24-127, Ano24-128, Ano24-129, Ano24-130, Ano25-62, Ano25-63, Ano25-64, Ano25-65, Ano25-66, Ano25-67, Ano25-68, Ano25-69, Ano20-76, Ano20-77, Ano20-52, Ano20-60, Ano20-61, Ano20-62, Ano20-63, Ano20-64, Ano20-65, Ano21-94, Ano21-95, Ano21-97, Ano21-98, Ano21-99, Ano21-100, Ano21-101, Ano21-102, Ano21-104, Ano21-111, Ano21-105, Ano21-106, Ano21-107, Ano21-108, Ano21-109, Ano21-110, Ano22-109, Ano22-110, Ano22-111, Ano22-121]. **frontier** [Som21, Sch22e]. **Frontiers** [Kon24]. **Fuel** [Sch23b, Smi22f, Svr23, Zor25a, Gal21a, Smi22k]. **Fuel-Cell** [Zor25a]. **Fuel-Economy** [Sch23b]. **Fueled** [Per25]. **fuelless** [Ano20-49]. **full** [Ano20-70]. **Fully** [Moo24c, Per20l, Smi23a]. **Fun** [Gen23d, Mar20e]. **Functional** [Sca22].

Funded [Pat23a]. **Fureka** [Lau24a]. **Fusion** [BBFS22, Cly22, Cly24, Der21e, Gol23b, Jon22h, Kon24, BCM+19, Cly20, Cly23]. **Fuss** [Kuh24]. **Future** [Ack22c, Ack23a, Ano21-122, Boy24, Gol24d, Ham21, Str21, Tei23, Zor25b, And20c, And20d, Ano20-72, Ano20-73, Ano22-130, Luc20a, MW20, Moo20b, Ulr20b].

Gadget [Wal21]. **Gadgeteering** [Ano21-112]. **gains** [Per20i]. **Gakutensoku** [Fru20]. **Galaksija** [Ack23d, Cas23d]. **Galaxy** [Pow24]. **Gallium** [Jes21]. **Game** [Pes21a, Reg23, Wea20, And20e, Smi23b, ZL20a, Smi24]. **Games** [Gen23d]. **gaming** [And20e, Pes21a]. **Gamma** [Ros22b, Sch22a]. **Gamma-Ray** [Ros22b, Sch22a]. **Ganguli** [Der21h]. **garage** [Lew20]. **Garwin** [Zor24a]. **Gas** [Jon22c, Gal21b]. **gateways** [Gol23c]. **gauge** [Sch23b]. **GE** [Has20b, JAR24]. **gear** [And20c]. **gears** [Jon24a]. **Geek** [Cas20a, Cas20b]. **Geely** [Smi23a]. **Gen** [Dol25, Pau22]. **General** [Der21h]. **Generate** [VA23]. **Generated** [Koz23a]. **generating** [Fai23b]. **generation** [Fai24a, Koz24d]. **Generations** [Sto23]. **Generative** [Bro23c, SHP24a]. **Generator** [Svr23]. **Generators** [Mar23c]. **Geopolitics** [Gol25e]. **Geostationary** [Koz20a]. **geothermal** [Gal20a]. **Germany** [Dum23]. **Germicidal** [And20h]. **gestures** [Wea20]. **Get** [HS23, Pep25, BS22, Fai23c, Gol23a, Gol23d, Hut20, Per20f, RK22]. **Gets** [Dol23a, Rab22, Ulr22, Hig20i, Per20h]. **Getting** [Ash23, LDO22]. **Ghost** [Koz20c, Cas23a]. **Giant** [Zor22b, Fru20, Gal20b, HS23]. **giants** [Smi23a]. **GIFs** [Per21b]. **Gig** [Gen24i, Cal24]. **Gill** [Ack22a]. **Give** [Bro23c, FBMI23, KH24, Red20, RHBM22, WAC+20]. **Gives** [Coo21]. **Gizmo** [SP21a, SP21b, SP21c, SB22b, SB22c, Smi22l]. **Glass** [Smi22b, Nor20a, HVW20]. **Glasses** [Per21a]. **Gliders** [Jon23e]. **Glitch** [Ros22b]. **Global** [Ano21-115, Fai23a, Mos25, Ros25, Fai24a, Raf20b, RG20]. **Globalism** [Bro22b]. **Gloom** [Ano21-62]. **Glucose** [KK21]. **GM** [Ulr20b]. **Go** [Cas24b, Gol25h, Wal21, Zel20, LG20, Ulr20a]. **Goal** [Lau24a, Cly22, Koz21b, Kum21]. **Godfather** [Kim22]. **Goes** [Ack21b, MD23, Smi21k, SJY25]. **GoFly** [Pot20b]. **Going** [Koz23c, Ros20a, SSB25, Wal24b, Kum21]. **Gone** [Jon23k, BMRW20]. **Gooaall** [Coh22]. **Good** [Ano20-66, Mar23j]. **goodbye** [Hig20j]. **Google** [HVW20, Has20b, Kon24, Koz21a]. **government** [Cha20a, Raf20b]. **GPS** [And25, Har21, Raf20b]. **GPU** [LW24]. **Gracey** [Gen23c]. **Grade** [Pat23b]. **Grain** [Smi22f, Usk21]. **Graphene** [Kir25]. **graphics** [Cas20e]. **Grapples** [Gol23h, Fai20b]. **Grappling** [Sch21e]. **Gravity** [Moo21]. **Great** [Ano21-113, Gen25h, KP24, Koz23c, Per21c, Smi21l, BBS23, Smi20a]. **Greater** [Str25b]. **greatest** [Cro20]. **Greedy** [Cha23]. **Green** [Fai23b, Gen25c, Zee25, Str23, Pat22]. **Green-Energy** [Zee25]. **greener** [Hus24]. **greenhouse** [Gal21b]. **Greening** [Gol24e]. **Greta** [Gen24g]. **Grid** [AFH22, Dum22, Eis23, Fai21, Gol22f, Gol25d, KH24, Mos25, Poo24a, Fai23c, Fai24a, Lee20, Moo21, Pat20]. **Grid-Forming** [KH24]. **grids** [Ano20-66]. **Grit** [Abb23]. **Groceries** [RZ21]. **Groove** [LDO22]. **Gropper** [Ano21a]. **Gross** [Der20]. **Grosser** [Der22a]. **Groundbreaking** [HPK22]. **Grounding** [Jon23g]. **Group** [Ano21-121]. **grow** [Fai20a]. **Growing** [Rak25c]. **grown** [Gui20]. **Growth** [Bro22c, Pat24a, Smi21j, Smi21k, Ano20-44, Per20j]. **guard** [Arm20]. **guardian** [Per20k]. **Guide** [Ano21-144, Ano21-145, Ano22-131, Ano22-132, CFPP22, RZ21, Ano20-103, Ano20-104, Gol23c]. **Guided** [Jon23e, Smi23c]. **Gun** [Ros23b].

Guy [Mar25e, Ano20-81].

H [Der23c]. **Habitat** [CZG25]. **Hack** [Cox25, Zel20, AF23, Lew20, RG20]. **hack-proof** [Lew20]. **Hackable** [Cas24e]. **Hacker** [Cas23b]. **Hacking** [CZ25]. **hacks** [Hoc22]. **Hairspray** [Pep25]. **Hall** [Zor22c]. **Ham** [Cas24e, Gol24i]. **HamMessenger** [Tho21a]. **Hand** [Cas25a, Coo21, You22]. **Handful** [PRR23]. **Handheld** [Cas24e, Wal21]. **Handie** [Bre20]. **Handie-Talkie** [Bre20]. **Handle** [Ack25a, Moo20a]. **Hands** [Cas20d, Cas20e, Cas20g, Cas20f, Cas20h, Cas21a, Cas21b, Cas22g, Cas24c, Ehn23, Gob23, Gol23e, Laz21, Lew20, Mar24l, Pom21, Sar20, Sch20b, Sch20c, Sch20d, Sch21c, Tem20, You22, Zel20, Pre20]. **Hands-On** [Gol23e]. **Happen** [Har21]. **Happens** [SH22b]. **Happier** [Ack25a, AS22]. **hard** [Hut21, Sca22, VH20]. **Harder** [Cha23]. **Hardest** [Chi21]. **Hardware** [Gen24b, Gen25f, Per24b, Ros22a, Sch23c, Smi21l, LA22, Per22b]. **Hardy** [Ros22e]. **harming** [And20h]. **harnesses** [Koz20c]. **Harsh** [Rab22]. **Harvard** [Der23d]. **Harvest** [Jon22e]. **Harvesting** [Usk21]. **hasten** [JJS22]. **Hate** [Cas23b]. **Having** [Gol23b]. **head** [Per21a]. **head-up** [Per21a]. **headphones** [Hsu20c]. **healing** [Ano20-67]. **Health** [Cha25b, SHP24a, Str20b]. **healthcare** [Ano20-96, Ano20-97]. **heap** [Smi22g]. **Hear** [Bra21, Koz20b, Tho21b]. **Heard** [Ama25, JKW25]. **Hearing** [Mar22i, Mos22, Sch20b]. **Heat** [MZR21]. **Heating** [Ano23-137]. **Heavens** [Sch23c, Sch24b]. **Heavy** [Der23a, Ack22b]. **Heavy-Duty** [Der23a]. **Heights** [Jon23b, RK22, Gol24g]. **Helena** [Koz21a]. **helicopter** [Pot20a]. **He'll** [Zor25a, Cha21a]. **Hellish** [MZR21]. **Hello** [AG20]. **Help** [Ack22a, Bau24, CPBZ21, Gol22a, Jon22b, Gal20a, Pre20, SHD20]. **Helped** [Ama25, Bro23c, Kim22, Ros22a, Fai23c, Per22a]. **helpful** [CHM21]. **Helping** [Gen25g, Koz20b]. **Helps** [Gol22b, Bar20, Der22c, HVW20]. **Henry** [Per25]. **Her** [Ack24a, Der22d, Der22g, Der23b, Gen24g, Cas22d, Gen25d]. **Here** [Ano21-144, Ano22-131, Ano22-132, Bou20, Car24, Gol25d, GK24, Per20l, Sch20b, Ano20-103, Ano20-104, Ano21-145, YS20, Hut20, Jag22]. **here-and-now** [YS20]. **Hey** [Gol25d]. **Hi** [Cas22a, Gol24j, Lew23]. **Hi-Fi** [Gol24j, Lew23, Cas22a]. **Hidden** [GH23, TB21, Mar20j]. **Hide** [Baj24, LA22]. **Hide-and-Seek** [Baj24]. **High** [Ano21-114, Coo22, Fai24a, Gan24, Van23, You22, And20c, Cly23, Has20a, Has20b, YS20, Zor23a]. **high-flying** [Zor23a]. **High-Numerical-Aperture** [Van23]. **High-Quality** [Gan24, Has20b]. **High-Resolution** [Coo22]. **High-Tech** [Ano21-114, You22, Has20a, YS20]. **high-temperature** [Cly23]. **High-Voltage** [Fai24a]. **Highway** [Mar23k]. **hiring** [Hsu20a]. **Historic** [Gol24f]. **History** [Ack24b, Eis23, Jon23a, Mar21e, Mar23b, Mul24, Cro20, Scu20a]. **hitch** [Pot20a]. **Hits** [Gen24b, Nor20b]. **Hoard** [Har22]. **Hoards** [GH23]. **Hobbling** [Cha25b]. **hockey** [Zor23a]. **Hold** [Pow24]. **Hole** [Gol25f, Bou20]. **Holistic** [Zdr25]. **Home** [Ack23d, Ano23-137, Bor24, Cas21c, Cas23d, Jon23b, MZR21, Mar25d, Szk21, Wat24, AG20, Has20b, Per20g, Sar20, Sch20c]. **home-automation** [Has20b]. **Home-Brew** [Szk21]. **Home-Brewed** [Ack23d, Cas23d]. **Homemade** [Sch22b]. **homes** [Ano20-96, Ano20-97]. **homomorphic** [Moo24c]. **Hope** [Dol25]. **Hopes** [Per20d, Rak24a]. **Horizon** [Zim21, Bou20]. **Horse** [Moo23b]. **hospital** [Ano20-68]. **Host** [Dum23, Lau24b]. **Hot** [Cas21d, Szk21, Per20j]. **hour** [Ack22b]. **Hours** [Zor25b]. **HP** [Cas25b]. **Hsiang** [Der22c]. **Hu** [Per20c]. **Hubble** [Pot24].

Huge [Coo21, Gol24d, Moo20e]. **Human** [Ack23a, Ack23c, Bro21, Gol25a, OSK25, Smi22h, BBS23]. **Humanity** [Ack23b, Gib21]. **Humanoid** [Ack24d, GK24]. **Humans** [Ack21b, Ack25a, CZG25, Gol22b, Gol23g, And20h, Gol22a]. **Hummer** [Smi22e]. **Humming** [Gen24j]. **Humphreys** [And25]. **Hundreds** [Usk21, Dum20]. **Hunt** [Pow24, Sch22b]. **Hunts** [GH23]. **Hurdles** [Pat20]. **Hybrid** [Gen24d, JAR24, Moo24d]. **hybrid-electric** [JAR24]. **Hybrids** [MCG24]. **Hydrogen** [Fai23b, Jon25, MD23, Zor24a, Zor25a, Str23]. **Hydrogen-Powered** [Jon25]. **Hydropower** [Smi22g]. **hype** [Fun20, Hig20i]. **Hyper** [Smi21f]. **Hyperloop** [Smi21f]. **Hypersonic** [Ros20a].

IBM [Aro24, MCG24, Ros25]. **IBM's** [Cho23]. **Ice** [Rab22, Tei23, Gen24i]. **Iconic** [Mar23c]. **Icy** [Cha21a]. **ID** [Gen23e]. **Idea** [Per24b]. **ideal** [Zor20]. **ideas** [Cly20]. **Identifies** [Koz23a]. **identities** [RS23]. **identity** [Per20b]. **IEEE** [Ano20-70, Ano20-71, Ano21-31, Ano21-115, Ano21-117, Ano21-118, Ano21-120, Ano21-119, Ano21-121, Ano21-116, Ano22-122, Ano22-123, Per22c, Ano21-57, Ano21-58, Ano21-59, Ano22-59, Gol21, HPK22, SM24, Zor23b, Zor24b]. **If** [BS22, Gar25, Mar20f, Sch24c, Sha23, Pou22, Raf20b]. **II** [Hoc22]. **image** [Bou20, PK20]. **Images** [Koz23a, Sch23c, Sch24b]. **Imagination** [Gol24a]. **Imagine** [Bro23c, CD21]. **Imaging** [Jag22]. **IMEC** [HH24]. **immersive** [WAC+20]. **Immortality** [Mar23c]. **Impacts** [Cab24]. **Implant** [Wal24b, Dut22]. **Implants** [Bou21, Dol25, SH22b]. **important** [Ano22-130]. **impossible** [VH20]. **Impossibly** [Smi22c]. **Impractical** [You22]. **impressive** [Smi22i]. **Improve** [Per24a, Cho20, Gol22b]. **Improvement** [TGLM21]. **improving** [Per23]. **included** [Hig20f]. **Income** [Ano21-121, Per22c]. **increases** [Per20i]. **increasingly** [Lau23b, SB22a]. **Indeed** [Smi21d]. **Indefinitely** [Pes21b]. **Indelible** [Zor24b]. **Independence** [Ack22a, Gen25g]. **Indeterminate** [Ano20-44]. **India** [Fai20b, Gen25c, JJS22, Jon23f]. **Indoor** [Smi21n]. **induction** [Sch20b]. **Industrial** [Gen23a]. **Industry** [Gen24g, Gol25b, Jag22, Kim22, Moo24a, Pat24a, WC23, And20g, Koz21b]. **Inefficient** [Cha25b]. **inertial** [Ano21-134, Per21a]. **Inexpensive** [Kuh24, Rab22]. **Inflammation** [CZ25]. **Inflation** [Per22c]. **Inflation-Adjusted** [Per22c]. **Information** [Gol25f, Der20]. **Infrastructure** [Fit21, Gen24j, Gol22c]. **Ingenious** [Mul24, ROK24]. **ingenuity** [Luc20b]. **inhaler** [And20b]. **Injury** [Gen25d]. **Ink** [HF22]. **Inkjets** [BF24]. **Innovate** [Ano20-72, Ano20-73, Ano21-122]. **Innovation** [Gen24i, Moo20c]. **Innovator** [Bro22d]. **input** [Cas20f]. **input/output** [Cas20f]. **insde** [Ano22-48]. **Insight** [Zor22c]. **Insights** [Gol25c, Per22c]. **Inspire** [Cla24]. **Inspired** [Sto23, Gen24h]. **Instacart** [RZ21]. **Instant** [Sch21d]. **Institute** [Gol22d, Raf20a]. **Instrument** [Ake23]. **Instruments** [CP21, Ano22-51]. **Insulin** [KK21]. **Insurance** [Ano21-121]. **Integrated** [Pau22]. **Intel** [Rak24a]. **Intelligence** [Bro21, Gol23a, Lau24a, CHM21, Fun20, Hut21]. **intelligent** [Ano20-90, Pou22, Pri21]. **intended** [Der21d]. **Intentional** [Jon23g]. **Interactive** [Gol25c, Ros22a]. **Interconnector** [KP24]. **Interconnects** [CPBZ21]. **interface** [Per20o]. **interference** [Bra21]. **Internet** [AFH22, Der22b, Hig20b, Hig20d, Hig20e, Hig20f, Hig20h, Hig20i, HP21a, HP21b, HP21e, HP21f, HP21c, HP21d, Mit20, PRR23, Per23, PSD22, Sha23, Shi22, Tow21]. **interoperable** [Koz21b]. **InterPlanetary** [PSD22]. **interrupted** [Ham20a].

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Jacob [Per21b]. **Jam** [Har21]. **James** [Mar23c, Sch21b]. **Janelle** [Ano23a]. **Japan** [Fru20, McC20]. **Java** [Ano20-95]. **Javier** [Gen25e]. **Jenkins** [Fai23c]. **Jersey** [Sha23]. **Jesse** [Fai23c]. **Jetson** [Cas20d]. **Jim** [Gen23a]. **Job** [Ack22b, Gen24a, Per20f]. **Jobs** [Der21e, Rak25c, Ack24d, Koz20a, Per20j, Per20m]. **John** [Der23a, Per20n]. **Johnny** [Gen25h]. **Jolt** [Dol23a]. **Jonathan** [Der23d]. **Joppe** [Gen25f]. **Journal** [And20f, Ano20-91, Ham20d, Ham20b, Hsu20c, Wal20b]. **Journalists** [Gol24c]. **Journey** [Der23b, Gen24g, Moo24e]. **Joy** [Str24a]. **JPEGs** [Smi25]. **JPL** [BD22, Cha21a]. **Juan** [Bro22b]. **Jugular** [Wal24b]. **Juice** [Jon23h]. **Julie** [Der22g]. **Julien** [Moo24b]. **Jump** [Ros22a]. **Jump-Start** [Ros22a]. **JUPITER** [Dum23]. **Just** [BF24, Gol24i, Koz23c, Pat23b, RC25, MS22].

K5 [Cas24e]. **Kahn** [Gol24f]. **Keep** [Ano21-123, Gol25f, Pes21b, SSJ+25, BMRW20]. **Keeping** [SSB25]. **Keeps** [Gen24f, Gen24j, Gen24l, AG20, Ulr20a]. **Kelp** [Pat24a]. **Kenya** [Der22e]. **Kepler** [Mit20]. **key** [YS20]. **Keyboards** [Mul24]. **Ki** [Kim22]. **kicked** [Per23]. **Kicking** [Gol23c]. **kid** [PK20]. **kids** [HVW20]. **Killer** [Cha25a, Fai21]. **kilometer** [Jaf22]. **Kilometers** [Smi21e, Cly23]. **Kim** [Kim22]. **kind** [RHBM22]. **kinds** [AMK+20]. **Kirchhoff** [BSAH21]. **Kit** [Mar25a, Cas20f]. **kits** [Per20e]. **Knee** [Gen25d]. **Knew** [Ack25b]. **Know** [Cas24f, Cas20g, Per23]. **Knowledge** [Mar23k]. **Known** [Mar23c]. **Korea** [Kim22]. **KrakenSDR** [Cas22b]. **Kubernetes** [Cas21c]. **Kyle** [Zor23a].

L [Der23d]. **Lab** [GPUB25, Moo24e, Ham20a, Hec20, Tem20, Moo23b]. **Lab-to-Fab** [Moo24e]. **Lags** [Smi22a]. **Lake** [Gol24i]. **laminography** [LA22]. **lamps** [And20h]. **Land** [Bau24, Goo25, DM20, Ulr22]. **Land-Mine** [Goo25]. **landing** [Fou21]. **Lane** [WPBS23]. **Language** [Cas22c, BBS23]. **language-learning** [BBS23]. **Languages** [Cas21d, CG23, Cas20i]. **Lapse** [Sch23c]. **Laptop** [Smi22l, Mar20c]. **large** [Per20f, VH20]. **Larry** [Per20o]. **Laser** [BVKR23, Gen24m, Mar22l, NYI24, Moo23b]. **laser-based** [Moo23b]. **Lasers** [BVKR23, BBFS22, NYI24, Ros23b, Cho20, Koz23b]. **last** [Som21]. **Lasted** [Shi22]. **lasting** [Ano20i]. **Later** [SB22a, Smi20d, Smi23b]. **Latest** [JPWB21, MJH+21, SAS+21, Cas20i, CKG+21]. **Lattice** [BBFS22]. **Launch** [Fou22, GO22, Pot20a, Sto20]. **launched** [Bro22b]. **Law** [BSAH21, Der23d, Smi22i, Boy24, BSAH21, CPBZ21, Moo24d, Moo24b, Per20c, RK22, SSB25, Van23]. **Law-for** [Smi22i]. **layer** [Gol22f]. **Layoffs** [Rak25c]. **lead** [AMK+20]. **Leader** [Der21f, Ros25]. **Leaders** [Per24a]. **leads** [Der22h, Dum22]. **league** [Ano20-51]. **leaks** [MJS20]. **lean** [Hub24]. **leaner** [Hus24]. **Leap** [Cho23, Gen24c, Zor22b]. **Leapfrog** [Rak24a]. **Learn** [BBS23, Cas21c, Kas23, Per24b, CHM21, Sca22]. **Learned** [ALRW21, Goo23a]. **Learning** [Ack21b, Ano21-125, Ano21-126, Gen25e, GH23, Ham21, Kin25, MMM24, MSS21, RZ21, Sch21a, Str22a, TGLM21, Ano21-113,

BBS23, Cas20d, DHOW20, Hig20d, LDO22, Moo20e, Per20n]. **Learns** [BBS23]. **lease** [Red20]. **Leaves** [Bea22]. **Lebanon** [Gen25g]. **led** [Hut20, Per22a]. **Left** [Zor24b]. **Legacy** [Ack24a, Ano20g]. **legal** [Hoc22]. **Legged** [Ack24d]. **Lego** [Tem20]. **Leland** [Jon23a]. **Lely** [Gol25a]. **Length** [Smi21d]. **Length-to-Beam** [Smi21d]. **Less** [Sch22a, Per20b, Sch22d, Smi22e]. **Lessons** [CG23, Cha21b, Gen22, Mar22j, SSJ+25, Goo23a]. **Let** [Cas20b, Der21e, Sch21b, WAC+20]. **Lets** [Der22d]. **Letters** [Tho21b]. **Letting** [Cas24a, RHBM22]. **Level** [Gol22b, Kas23, And20g]. **Leveraging** [AS22]. **LGBTQ** [Gen23c]. **Libi** [Cas24a]. **Lidar** [WPBS23, Per21a]. **Lie** [Smi21d, Smi21e, Smi21f, Smi21c, Smi21g, Smi21h, Smi21i, Smi21j, Smi21k, Smi22a, Smi22b, Smi22c, Smi22e, Smi22j, Smi22i, Smi21b]. **Life** [Ano20-81, Bow21, Cas20c, Gen22, Zdr25, Cas20a, Der20, Fru20, Gen23b, Har22, Pri21, Red20, Smi22d, Cas20b]. **Lifesaving** [Per22a]. **Lift** [Fou22]. **Light** [Ano20-82, Gen23a, Mar21j, Mos22, SC23, Sch21a, Ano20-67, Ano21-50, AF23, Ham21, Koz20c, Mar20i, Raf20a]. **lightens** [Ham20d]. **Lightest** [Jon22c]. **lighting** [Has20b]. **Lightmatter** [Sch21a]. **Like** [Rak25a, Moo22c, WB21, ZL20b]. **Limbs** [FBMI23]. **Limited** [And20d]. **Limits** [Smi21d, Ano21-113, Ano21-123]. **Limor** [Cas23a]. **Line** [Gen24d, Poo24a, Ulr20b]. **Linear** [Svr23, Gar20]. **Lines** [Cha20a, Has20a, Has20b, Luc20a, Per20b, Per20l, Per20n, Per20e, Per20h, Per20o, Pre20]. **Link** [Zee25, Dum20]. **liquid** [Smi22k]. **Listen** [Pri21]. **lists** [Ano20-95]. **lite** [LG20]. **Literally** [Ros22a]. **Lithium** [Cha24, Kum21, Mur23, Kum20]. **Lithium-ion** [Kum21, Mur23]. **lithium-metal** [Kum20]. **Lithography** [Boy24, Van23]. **Little** [Coo21, Mar23c, Mar25d, Mar22j]. **Liu** [Wal24a]. **Live** [Mar23c]. **lively** [Ano20-82]. **lives** [Ong20]. **Living** [CZG25, De 22, MWS+25]. **LLMs** [Zor25b]. **load** [DM20, Ham20d]. **Location** [Ano20-83]. **logjams** [DM20]. **Long** [Bro22a, Gol25e, Mur23, Smi21d, Smi21m, And20d, Hig20j, Ros22d]. **long-range** [Ros22d]. **Long-Term** [Gol25e, And20d]. **Look** [Ano20-84, Cop25, PK20, Per21a, Sch20d, Str24b, VA23]. **Looking** [Ano21-124, Gol23d]. **Looks** [Tei23, Ano21-27, Ano22-55]. **Loop** [Ack23a, Bro21, Sch20b]. **loopholes** [Hoc22]. **LoRa** [Cas24d]. **LoRa-based** [Cas24d]. **lose** [Per20i]. **Lot** [Coo21, Per24b, Cas20d, Cas20f]. **Lots** [Gol25f]. **Love** [Cas23b, Gen25e, Cas22a]. **loving** [Der22b]. **Low** [Bow21, Ver24]. **Low-Cost** [Ver24]. **Low-Dropout** [Bow21]. **Lower** [Lew23]. **LTA** [Koz23d]. **Lu** [Der22c]. **Luke** [Str23]. **lunar** [LSM23]. **Lurk** [Cas23c]. **luxury** [GA20, Has20b].

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Anonymous:2022:Cr

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Anonymous:2023:Ct

[Ano23-103] Anonymous. Cover 4. *IEEE Spectrum*, 60(5):CV4, May 2023. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2023:Cy

[Ano23-104] Anonymous. Cover 4. *IEEE Spectrum*, 60(6):CV4, June 2023. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2023:Cbd

[Ano23-105] Anonymous. Cover 4. *IEEE Spectrum*, 60(7):1, July 2023. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2023:Cbp

[Ano23-106] Anonymous. Cover 4. *IEEE Spectrum*, 60(10):CV4, October 2023. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2023:Cbu

[Ano23-107] Anonymous. Cover 4. *IEEE Spectrum*, 60(11):CV4, November 2023. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2023:Cbz

[Ano23-108] Anonymous. Cover 4. *IEEE Spectrum*, 60(12):CV4, December 2023. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2023:Cbg

[Ano23-109] Anonymous. Cover2. *IEEE Spectrum*, 60(9):1, September 2023. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

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[Ano23-110] Anonymous. Cover3. *IEEE Spectrum*, 60(9):1, September 2023. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2023:Cbk

[Ano23-111] Anonymous. Cover4. *IEEE Spectrum*, 60(9):1, September 2023. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

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[Ano23-112] Anonymous. Front cover. *IEEE Spectrum*, 60(1):1, January 2023. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

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[Ano23-118] Anonymous. Front cover. *IEEE Spectrum*, 60(8):1, August 2023. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

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[Ano23-120] Anonymous. Front cover. *IEEE Spectrum*, 60(10):1, October 2023. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

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[Ano23-124] Anonymous. Masthead. *IEEE Spectrum*, 60(3):4, March 2023. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

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[Ano23-125] Anonymous. Masthead. *IEEE Spectrum*, 60(4):4, April 2023.

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[Ano23-133] Anonymous. Ode to an arm. *IEEE Spectrum*, 60(8):52, August 2023. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

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[Ano23-134] Anonymous. Past forward. *IEEE Spectrum*, 60(9):68, September 2023. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

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[Ano23-135] Anonymous. Staff. *IEEE Spectrum*, 60(12):4, December 2023. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

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[Ano24e] Anonymous. Advertisement. *IEEE Spectrum*, 61(01):60, January 2024. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

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[Ano24-28] Anonymous. Advertisement. *IEEE Spectrum*, 61(7):13, July 2024. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2024:Abc

[Ano24-29] Anonymous. Advertisement. *IEEE Spectrum*, 61(8):3, August 2024. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2024:Abd

[Ano24-30] Anonymous. Advertisement. *IEEE Spectrum*, 61(8):5, August 2024. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

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[Ano24-32] Anonymous. Advertisement. *IEEE Spectrum*, 61(9):3, September 2024. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

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[Ano24-33] Anonymous. Advertisement. *IEEE Spectrum*, 61(9):13, September 2024. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

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Anonymous:2024:Cv

[Ano24-99] Anonymous. Cover 3. *IEEE Spectrum*, 61(5):CV3, May 2024. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2024:Cba

[Ano24-100] Anonymous. Cover 3. *IEEE Spectrum*, 61(6):CV3, June 2024. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2024:Cbf

[Ano24-101] Anonymous. Cover 3. *IEEE Spectrum*, 61(7):CV3, July 2024. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2024:Cbk

[Ano24-102] Anonymous. Cover 3. *IEEE Spectrum*, 61(8):CV3, August 2024. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2024:Cbp

[Ano24-103] Anonymous. Cover 3. *IEEE Spectrum*, 61(9):CV3, September 2024. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2024:Cbu

[Ano24-104] Anonymous. Cover 3. *IEEE Spectrum*, 61(10):CV3, October 2024. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2024:Cbz

[Ano24-105] Anonymous. Cover 3. *IEEE Spectrum*, 61(11):CV3, November 2024. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2024:Cce

[Ano24-106] Anonymous. Cover 3. *IEEE Spectrum*, 61(12):CV3, December 2024. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2024:Ch

[Ano24-107] Anonymous. Cover 4. *IEEE Spectrum*, 61(2):CV4, February 2024. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2024:Cm

[Ano24-108] Anonymous. Cover 4. *IEEE Spectrum*, 61(3):CV4, March 2024. CODEN IEESAM. ISSN

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Anonymous:2024:Cr

[Ano24-109] Anonymous. Cover 4. *IEEE Spectrum*, 61(4):CV4, April 2024. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2024:Cw

[Ano24-110] Anonymous. Cover 4. *IEEE Spectrum*, 61(5):CV4, May 2024. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2024:Cbb

[Ano24-111] Anonymous. Cover 4. *IEEE Spectrum*, 61(6):CV4, June 2024. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2024:Cbg

[Ano24-112] Anonymous. Cover 4. *IEEE Spectrum*, 61(7):CV4, July 2024. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2024:Cbl

[Ano24-113] Anonymous. Cover 4. *IEEE Spectrum*, 61(8):CV4, August 2024. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2024:Cbq

[Ano24-114] Anonymous. Cover 4. *IEEE Spectrum*, 61(9):CV4, September 2024. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2024:Cbv

[Ano24-115] Anonymous. Cover 4. *IEEE Spectrum*, 61(10):CV4, October 2024. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2024:Cca

[Ano24-116] Anonymous. Cover 4. *IEEE Spectrum*, 61(11):CV4, November 2024. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2024:Ccf

[Ano24-117] Anonymous. Cover 4. *IEEE Spectrum*, 61(12):CV4, December 2024. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2024:Ca

[Ano24-118] Anonymous. Cover2. *IEEE Spectrum*, 61(01):1, January 2024. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2024:FCa

[Ano24-119] Anonymous. Front cover. *IEEE Spectrum*, 61(01):1, January 2024. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

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Anonymous:2024:FCd

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Anonymous:2024:FCe

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Anonymous:2024:FCf

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Anonymous:2024:FCg

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Anonymous:2024:FCh

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Anonymous:2024:FCi

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Anonymous:2024:FCj

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Anonymous:2024:FCk

[Ano24-129] Anonymous. Front cover. *IEEE Spectrum*, 61(11):1, November 2024. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2024:FCl

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Anonymous:2024:Ma

[Ano24-131] Anonymous. Masthead. *IEEE Spectrum*, 61(01):6, January 2024. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2024:Mb

[Ano24-132] Anonymous. Masthead. *IEEE Spectrum*, 61(2):4, February

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Anonymous:2024:Mc

[Ano24-133] Anonymous. Masthead. *IEEE Spectrum*, 61(3):4, March 2024. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2024:Md

[Ano24-134] Anonymous. Masthead. *IEEE Spectrum*, 61(4):4, April 2024. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2024:Me

[Ano24-135] Anonymous. Masthead. *IEEE Spectrum*, 61(5):4, May 2024. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2024:Mf

[Ano24-136] Anonymous. Masthead. *IEEE Spectrum*, 61(6):4, June 2024. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2024:Mg

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Anonymous:2024:Mh

[Ano24-138] Anonymous. Masthead. *IEEE Spectrum*, 61(8):4, August 2024. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2024:Mi

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Anonymous:2024:Mj

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Anonymous:2024:Mk

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Anonymous:2024:Ml

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Anonymous:2024:MM

[Ano24-143] Anonymous. Mechanical megatalent. *IEEE Spectrum*, 61(4): 14–15, April 2024. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2024:MEV

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Anonymous:2024:TVE

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Anonymous:2024:TT

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Anonymous:2025:Au

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Anonymous:2025:Cv

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Anonymous:2025:Cba

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Anonymous:2025:Cbf

[Ano25-28] Anonymous. Contents. *IEEE Spectrum*, 62(7):1, July 2025. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2025:Cbk

[Ano25-29] Anonymous. Contents. *IEEE Spectrum*, 62(8):1, August 2025. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2025:Cc

[Ano25-30] Anonymous. Contributors. *IEEE Spectrum*, 62(1):6, January 2025. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2025:Ch

[Ano25-31] Anonymous. Contributors. *IEEE Spectrum*, 62(2):4, February 2025. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2025:Cm

[Ano25-32] Anonymous. Contributors. *IEEE Spectrum*, 62(3):4, March 2025. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2025:Cr

[Ano25-33] Anonymous. Contributors. *IEEE Spectrum*, 62(4):4, April 2025. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2025:Cw

[Ano25-34] Anonymous. Contributors. *IEEE Spectrum*, 62(5):4, May 2025.

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Anonymous:2025:Cbb

[Ano25-35] Anonymous. Contributors. *IEEE Spectrum*, 62(6):4, June 2025. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2025:Cbg

[Ano25-36] Anonymous. Contributors. *IEEE Spectrum*, 62(7):4, July 2025. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2025:Cbl

[Ano25-37] Anonymous. Contributors. *IEEE Spectrum*, 62(8):4, August 2025. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2025:Ca

[Ano25-38] Anonymous. Cover 2. *IEEE Spectrum*, 62(1):CV2, January 2025. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2025:Ck

[Ano25-39] Anonymous. Cover 2. *IEEE Spectrum*, 62(3):CV2, March 2025. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2025:Cp

[Ano25-40] Anonymous. Cover 2. *IEEE Spectrum*, 62(4):CV2, April 2025. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2025:Cu

[Ano25-41] Anonymous. Cover 2. *IEEE Spectrum*, 62(5):CV2, May 2025. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2025:Cz

[Ano25-42] Anonymous. Cover 2. *IEEE Spectrum*, 62(6):CV2, June 2025. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2025:Cbe

[Ano25-43] Anonymous. Cover 2. *IEEE Spectrum*, 62(7):CV2, July 2025. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2025:Cbj

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Anonymous:2025:Cd

[Ano25-45] Anonymous. Cover 3. *IEEE Spectrum*, 62(1):CV3, January 2025. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2025:Cn

[Ano25-46] Anonymous. Cover 3. *IEEE Spectrum*, 62(3):CV3, March

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Anonymous:2025:Cs

[Ano25-47] Anonymous. Cover 3. *IEEE Spectrum*, 62(4):CV3, April 2025. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2025:Cx

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Anonymous:2025:Cbc

[Ano25-49] Anonymous. Cover 3. *IEEE Spectrum*, 62(6):CV3, June 2025. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2025:Cbh

[Ano25-50] Anonymous. Cover 3. *IEEE Spectrum*, 62(7):CV3, July 2025. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2025:Cbm

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Anonymous:2025:Ce

[Ano25-52] Anonymous. Cover 4. *IEEE Spectrum*, 62(1):CV4, January 2025. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2025:Co

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Anonymous:2025:Ct

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Anonymous:2025:Cy

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Anonymous:2025:Cbd

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Anonymous:2025:Cbi

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Anonymous:2025:Cbn

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Anonymous:2025:Cf

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Anonymous:2025:Ci

[Ano25-60] Anonymous. Cover3. *IEEE Spectrum*, 62(2):CV03, February 2025. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2025:Cj

[Ano25-61] Anonymous. Cover4. *IEEE Spectrum*, 62(2):CV4, February 2025. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2025:FCa

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Anonymous:2025:FCb

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Anonymous:2025:FCc

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Anonymous:2025:FCd

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Anonymous:2025:FCe

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Anonymous:2025:FCf

[Ano25-67] Anonymous. Front cover. *IEEE Spectrum*, 62(6):C1, June 2025. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Anonymous:2025:FCg

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Anonymous:2025:FCh

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Anonymous:2025:Ma

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Anonymous:2025:Mb

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Anonymous:2025:Mc

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Anonymous:2025:Me

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Anonymous:2025:Mg

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