Rong Xu

List of Publications by Year in descending order

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117625 133252 3,673 66 34 59 citations h-index g-index papers 66 66 66 3476 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Capturing the swelling of solid-electrolyte interphase in lithium metal batteries. Science, 2022, 375, 66-70.	12.6	183
2	Understanding the role of monolayer graphene during long range shock strengthening of metal-graphene heterostructure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 837, 142741.	5.6	4
3	Origin of low-MgO primitive intraplate alkaline basalts from partial melting of carbonate-bearing eclogite sources. Geochimica Et Cosmochimica Acta, 2022, 324, 240-261.	3.9	13
4	Decoupled Zn-Sr-Nd isotopic composition of continental intraplate basalts caused by two-stage melting process. Geochimica Et Cosmochimica Acta, 2022, 326, 234-252.	3.9	13
5	Electrolyte-Resistant Dual Materials for the Synergistic Safety Enhancement of Lithium-Ion Batteries. Nano Letters, 2021, 21, 2074-2080.	9.1	37
6	Efficient Lithium Metal Cycling over a Wide Range of Pressures from an Anion-Derived Solid-Electrolyte Interphase Framework. ACS Energy Letters, 2021, 6, 816-825.	17.4	46
7	Grooving of Metals by High-Intensity Focused Ultrasound-Assisted Water-Confined Laser Micromachining. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2021, 143, .	2.2	5
8	Free-standing ultrathin lithium metal–graphene oxide host foils with controllable thickness for lithium batteries. Nature Energy, 2021, 6, 790-798.	39.5	198
9	Ultrastrong medium entropy alloy with simultaneous strength-ductility improvement via heterogeneous nanocrystalline structures. Materials Science & Degineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 823, 141631.	5. 6	16
10	Deciphering the origin of a basanite-alkali basalt-tholeiite suite using Zn isotopes. Chemical Geology, 2021, 585, 120585.	3.3	6
11	A Morphologically Stable Li/Electrolyte Interface for Allâ€Solidâ€State Batteries Enabled by 3Dâ€Micropatterned Garnet. Advanced Materials, 2021, 33, e2104009.	21.0	76
12	All-Solid-State Lithium–Sulfur Batteries Enhanced by Redox Mediators. Journal of the American Chemical Society, 2021, 143, 18188-18195.	13.7	66
13	Dynamic spatial progression of isolated lithium during battery operations. Nature, 2021, 600, 659-663.	27.8	111
14	Charge distribution guided by grain crystallographic orientations in polycrystalline battery materials. Nature Communications, 2020, 11, 83.	12.8	129
15	Generation of continental intraplate alkali basalts and implications for deep carbon cycle. Earth-Science Reviews, 2020, 201, 103073.	9.1	30
16	Air-Filtering Masks for Respiratory Protection from PM2.5 and Pandemic Pathogens. One Earth, 2020, 3, 574-589.	6.8	60
17	Quantitative spatiotemporal Li profiling using nanoindentation. Journal of the Mechanics and Physics of Solids, 2020, 144, 104102.	4.8	16
18	Melting of a hydrous peridotite mantle source under the Emeishan large igneous province. Earth-Science Reviews, 2020, 207, 103253.	9.1	19

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19	Computational Modeling of Heterogeneity of Stress, Charge, and Cyclic Damage in Composite Electrodes of Li-Ion Batteries. Journal of the Electrochemical Society, 2020, 167, 040527.	2.9	36
20	Microstructure, corrosion behaviour and thermal stability of AA 7150 after ultrasonic shot peening. Surface and Coatings Technology, 2020, 398, 126127.	4.8	30
21	Strain rate sensitivity of the ultrastrong gradient nanocrystalline 316L stainless steel and its rate-dependent modeling at nanoscale. International Journal of Plasticity, 2020, 129, 102696.	8.8	46
22	Roll to roll manufacturing of fast charging, mechanically robust 0D/2D nanolayered Si-graphene anode with well-interfaced and defect engineered structures. Energy Storage Materials, 2019, 22, 450-460.	18.0	31
23	Quantification of Heterogeneous Degradation in Liâ€lon Batteries. Advanced Energy Materials, 2019, 9, 1900674.	19.5	176
24	Langshan basalts record recycled Paleo-Asian oceanic materials beneath the northwest North China Craton. Chemical Geology, 2019, 524, 88-103.	3.3	21
25	Heterogeneous damage in Li-ion batteries: Experimental analysis and theoretical modeling. Journal of the Mechanics and Physics of Solids, 2019, 129, 160-183.	4.8	164
26	Taming Active Material-Solid Electrolyte Interfaces with Organic Cathode for All-Solid-State Batteries. Joule, 2019, 3, 1349-1359.	24.0	70
27	Highâ€Voltage Chargingâ€Induced Strain, Heterogeneity, and Micro racks in Secondary Particles of a Nickelâ€Rich Layered Cathode Material. Advanced Functional Materials, 2019, 29, 1900247.	14.9	219
28	Long distance chemical gradient induced by surface nanocrystallization. Applied Materials Today, 2019, 14, 137-142.	4.3	17
29	Composite bending-dominated hollow nanolattices: A stiff, cyclable mechanical metamaterial. Materials Today, 2018, 21, 467-474.	14.2	26
30	Oxygen Release Induced Chemomechanical Breakdown of Layered Cathode Materials. Nano Letters, 2018, 18, 3241-3249.	9.1	237
31	Transient thermal stress due to the penetration of calcium-magnesium-alumino-silicate in EB-PVD thermal barrier coating system. Ceramics International, 2018, 44, 12655-12663.	4.8	35
32	Nanograined surface fabricated on the pure copper by ultrasonic shot peening and an energy-density based criterion for peening intensity quantification. Journal of Manufacturing Processes, 2018, 32, 656-663.	5.9	27
33	Enhanced Mechanical and Biological Performance of an Extremely Fine Nanograined 316L Stainless Steel Cell–Substrate Interface Fabricated by Ultrasonic Shot Peening. ACS Biomaterials Science and Engineering, 2018, 4, 1609-1621.	5.2	12
34	Localized corrosion behaviour of AA7150 after ultrasonic shot peening: Corrosion depth vs. impact energy. Corrosion Science, 2018, 130, 218-230.	6.6	74
35	Microhole Drilling by Double Laser Pulses With Different Pulse Energies. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2018, 140, .	2.2	10
36	Corrosive fracture of electrodes in Li-ion batteries. Journal of the Mechanics and Physics of Solids, 2018, 121, 258-280.	4.8	84

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37	Ultrastrong nanocrystalline stainless steel and its Hall-Petch relationship in the nanoscale. Scripta Materialia, 2018, 155, 26-31.	5.2	72
38	Crust recycling induced compositional-temporal-spatial variations of Cenozoic basalts in the Trans-North China Orogen. Lithos, 2017, 274-275, 383-396.	1.4	31
39	Ultrasound-assisted water-confined laser micromachining (UWLM) of metals: Experimental study and time-resolved observation. Journal of Materials Processing Technology, 2017, 245, 259-269.	6.3	14
40	Carbonated sediment recycling and its contribution to lithospheric refertilization under the northern North China Craton. Chemical Geology, 2017, 466, 641-653.	3.3	41
41	In-situ trace element and Sr isotopic compositions of mantle xenoliths constrain two-stage metasomatism beneath the northern North China Craton. Lithos, 2017, 288-289, 338-351.	1.4	31
42	Mechanical and Structural Degradation of LiNi <i></i> Co <i>_z</i> O ₂ Cathode in Li-lon Batteries: An Experimental Study. Journal of the Electrochemical Society, 2017, 164, A3333-A3341.	2.9	134
43	Printing 3D Gel Polymer Electrolyte in Lithium-Ion Microbattery Using Stereolithography. Journal of the Electrochemical Society, 2017, 164, A1852-A1857.	2.9	74
44	Trace element and <scp>S</scp> r isotope records of multiâ€episode carbonatite metasomatism on the eastern margin of the <scp>N</scp> orth <scp>C</scp> hina <scp>C</scp> raton. Geochemistry, Geophysics, Geosystems, 2017, 18, 220-237.	2.5	35
45	Operando Nanoindentation: A New Platform to Measure the Mechanical Properties of Electrodes during Electrochemical Reactions. Journal of the Electrochemical Society, 2017, 164, A3840-A3847.	2.9	30
46	Computational analysis of chemomechanical behaviors of composite electrodes in Li-ion batteries. Journal of Materials Research, 2016, 31, 2715-2727.	2.6	60
47	Electrochemomechanics of Electrodes in Li-lon Batteries: A Review. Journal of Electrochemical Energy Conversion and Storage, 2016, 13, .	2.1	47
48	Laser sintered single layer graphene oxide reinforced titanium matrix nanocomposites. Composites Part B: Engineering, 2016, 93, 352-359.	12.0	77
49	Accurate Determination of Sr Isotopic Compositions in Clinopyroxene and Silicate Glasses by <scp>LA</scp> â€ <scp>MC</scp> â€ <scp>ICP</scp> â€ <scp>MS</scp> . Geostandards and Geoanalytical Research, 2016, 40, 85-99.	3.1	100
50	Al-in-olivine thermometry evidence for the mantle plume origin of the Emeishan large igneous province. Lithos, 2016, 266-267, 362-366.	1.4	25
51	Grid indentation analysis of mechanical properties of composite electrodes in Li-ion batteries. Extreme Mechanics Letters, 2016, 9, 495-502.	4.1	83
52	Mechanisms governing the interfacial delamination of thermal barrier coating system with double ceramic layers. Applied Surface Science, 2016, 370, 394-402.	6.1	31
53	Effects of sintering and mixed oxide growth on the interface cracking of air-plasma-sprayed thermal barrier coating system at high temperature. Applied Surface Science, 2016, 360, 461-469.	6.1	65
54	Mechanical interactions regulated kinetics and morphology of composite electrodes in Li-ion batteries. Extreme Mechanics Letters, 2016, 8, 13-21.	4.1	56

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55	Ultrafast direct fabrication of flexible substrate-supported designer plasmonic nanoarrays. Nanoscale, 2016, 8, 172-182.	5.6	40
56	Comparative analysis of a novel disease phenotype network based on clinical manifestations. Journal of Biomedical Informatics, 2015, 53, 113-120.	4.3	33
57	SimQ: Real-Time Retrieval of Similar Consumer Health Questions. Journal of Medical Internet Research, 2015, 17, e43.	4.3	15
58	Fracture of thermal barrier coating with multiple surface cracks and delaminations: Interlayer effect. Journal of Central South University, 2014, 21, 2579-2583.	3.0	3
59	Numerical study on interfacial delamination of thermal barrier coatings with multiple separations. Surface and Coatings Technology, 2014, 244, 117-122.	4.8	29
60	Pyroxenite and peridotite xenoliths from Hexigten, Inner Mongolia: Insights into the Paleo-Asian Ocean subduction-related melt/fluid–peridotite interaction. Geochimica Et Cosmochimica Acta, 2014, 140, 435-454.	3.9	40
61	Interfacial delamination of double-ceramic-layer thermal barrier coating system. Ceramics International, 2014, 40, 13793-13802.	4.8	45
62	Interfacial fracture mechanism associated with mixed oxides growth in thermal barrier coating system. Surface and Coatings Technology, 2014, 253, 139-147.	4.8	42
63	Network Analysis of Human Disease Comorbidity Patterns Based on Large-Scale Data Mining. Lecture Notes in Computer Science, 2014, , 243-254.	1.3	7
64	In-situ trace elements and Li and Sr isotopes in peridotite xenoliths from Kuandian, North China Craton: Insights into Pacific slab subduction-related mantle modification. Chemical Geology, 2013, 354, 107-123.	3.3	62
65	Semi-supervised image classification for automatic construction of a health image library. , 2012, , .		6
66	Integrating Large, Disparate Biomedical Ontologies to Boost Organ Development Network Connectivity. Lecture Notes in Computer Science, 2012, , 71-82.	1.3	2