

# Rong Xu

## List of Publications by Citations

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109  
papers

2,828  
citations

29  
h-index

50  
g-index

114  
ext. papers

4,368  
ext. citations

8.7  
avg, IF

6.73  
L-index

#	Paper	IF	Citations
109	Increased risk of COVID-19 infection and mortality in people with mental disorders: analysis from electronic health records in the United States. <i>World Psychiatry</i> , <b>2021</b> , 20, 124-130	14.4	246
108	COVID-19 risk and outcomes in patients with substance use disorders: analyses from electronic health records in the United States. <i>Molecular Psychiatry</i> , <b>2021</b> , 26, 30-39	15.1	200
107	Oxygen Release Induced Chemomechanical Breakdown of Layered Cathode Materials. <i>Nano Letters</i> , <b>2018</b> , 18, 3241-3249	11.5	163
106	High-Voltage Charging-Induced Strain, Heterogeneity, and Micro-Cracks in Secondary Particles of a Nickel-Rich Layered Cathode Material. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1900247	15.6	132
105	Analyses of Risk, Racial Disparity, and Outcomes Among US Patients With Cancer and COVID-19 Infection. <i>JAMA Oncology</i> , <b>2021</b> , 7, 220-227	13.4	126
104	Quantification of Heterogeneous Degradation in Li-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900674	21.8	111
103	Towards understanding brain-gut-microbiome connections in Alzheimer's disease. <i>BMC Systems Biology</i> , <b>2016</b> , 10 Suppl 3, 63	3.5	92
102	Heterogeneous damage in Li-ion batteries: Experimental analysis and theoretical modeling. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2019</b> , 129, 160-183	5	87
101	Mechanical and Structural Degradation of Li <sub>Nix</sub> MnyCozO <sub>2</sub> Cathode in Li-Ion Batteries: An Experimental Study. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, A3333-A3341	3.9	75
100	Charge distribution guided by grain crystallographic orientations in polycrystalline battery materials. <i>Nature Communications</i> , <b>2020</b> , 11, 83	17.4	75
99	COVID-19 and dementia: Analyses of risk, disparity, and outcomes from electronic health records in the US. <i>Alzheimer's and Dementia</i> , <b>2021</b> , 17, 1297-1306	1.2	68
98	Grid indentation analysis of mechanical properties of composite electrodes in Li-ion batteries. <i>Extreme Mechanics Letters</i> , <b>2016</b> , 9, 495-502	3.9	61
97	Free-standing ultrathin lithium metal-graphene oxide host foils with controllable thickness for lithium batteries. <i>Nature Energy</i> , <b>2021</b> , 6, 790-798	62.3	56
96	Corrosive fracture of electrodes in Li-ion batteries. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2018</b> , 121, 258-280	5	49
95	Printing 3D Gel Polymer Electrolyte in Lithium-Ion Microbattery Using Stereolithography. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, A1852-A1857	3.9	49
94	Computational analysis of chemomechanical behaviors of composite electrodes in Li-ion batteries. <i>Journal of Materials Research</i> , <b>2016</b> , 31, 2715-2727	2.5	48
93	Taming Active Material-Solid Electrolyte Interfaces with Organic Cathode for All-Solid-State Batteries. <i>Joule</i> , <b>2019</b> , 3, 1349-1359	27.8	47

92	Localized corrosion behaviour of AA7150 after ultrasonic shot peening: Corrosion depth vs. impact energy. <i>Corrosion Science</i> , <b>2018</b> , 130, 218-230	6.8	46
91	Effects of sintering and mixed oxide growth on the interface cracking of air-plasma-sprayed thermal barrier coating system at high temperature. <i>Applied Surface Science</i> , <b>2016</b> , 360, 461-469	6.7	41
90	Mechanical interactions regulated kinetics and morphology of composite electrodes in Li-ion batteries. <i>Extreme Mechanics Letters</i> , <b>2016</b> , 8, 13-21	3.9	41
89	Capturing the swelling of solid-electrolyte interphase in lithium metal batteries.. <i>Science</i> , <b>2022</b> , 375, 66-70,3	5.3	40
88	Tumor Necrosis Factor (TNF) blocking agents are associated with lower risk for Alzheimer's disease in patients with rheumatoid arthritis and psoriasis. <i>PLoS ONE</i> , <b>2020</b> , 15, e0229819	3.7	36
87	Ultrastrong nanocrystalline stainless steel and its Hall-Petch relationship in the nanoscale. <i>Scripta Materialia</i> , <b>2018</b> , 155, 26-31	5.6	33
86	Interfacial delamination of double-ceramic-layer thermal barrier coating system. <i>Ceramics International</i> , <b>2014</b> , 40, 13793-13802	5.1	33
85	Interfacial fracture mechanism associated with mixed oxides growth in thermal barrier coating system. <i>Surface and Coatings Technology</i> , <b>2014</b> , 253, 139-147	4.4	32
84	Electrochemomechanics of Electrodes in Li-Ion Batteries: A Review. <i>Journal of Electrochemical Energy Conversion and Storage</i> , <b>2016</b> , 13,	2	31
83	When hematologic malignancies meet COVID-19 in the United States: Infections, death and disparities. <i>Blood Reviews</i> , <b>2021</b> , 47, 100775	11.1	31
82	A comparison of AA2024 and AA7150 subjected to ultrasonic shot peening: Microstructure, surface segregation and corrosion. <i>Surface and Coatings Technology</i> , <b>2018</b> , 337, 552-560	4.4	30
81	Ultrafast direct fabrication of flexible substrate-supported designer plasmonic nanoarrays. <i>Nanoscale</i> , <b>2016</b> , 8, 172-82	7.7	29
80	Comparative analysis of a novel disease phenotype network based on clinical manifestations. <i>Journal of Biomedical Informatics</i> , <b>2015</b> , 53, 113-20	10.2	27
79	Mechanisms governing the interfacial delamination of thermal barrier coating system with double ceramic layers. <i>Applied Surface Science</i> , <b>2016</b> , 370, 394-402	6.7	27
78	Numerical study on interfacial delamination of thermal barrier coatings with multiple separations. <i>Surface and Coatings Technology</i> , <b>2014</b> , 244, 117-122	4.4	27
77	PhenoPredict: A disease phenome-wide drug repositioning approach towards schizophrenia drug discovery. <i>Journal of Biomedical Informatics</i> , <b>2015</b> , 56, 348-55	10.2	25
76	Efficient Lithium Metal Cycling over a Wide Range of Pressures from an Anion-Derived Solid-Electrolyte Interphase Framework. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 816-825	20.1	25
75	Dynamic spatial progression of isolated lithium during battery operations.. <i>Nature</i> , <b>2021</b> , 600, 659-663	50.4	25

74	Air-Filtering Masks for Respiratory Protection from PM and Pandemic Pathogens. <i>One Earth</i> , <b>2020</b> , 3, 574-589	8.1	22
73	Operando Nanoindentation: A New Platform to Measure the Mechanical Properties of Electrodes during Electrochemical Reactions. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, A3840-A3847	3.9	21
72	Data-driven multiple-level analysis of gut-microbiome-immune-joint interactions in rheumatoid arthritis. <i>BMC Genomics</i> , <b>2019</b> , 20, 124	4.5	20
71	COVID-19 risk, disparities and outcomes in patients with chronic liver disease in the United States. <i>EClinicalMedicine</i> , <b>2021</b> , 31, 100688	11.3	20
70	Computational Modeling of Heterogeneity of Stress, Charge, and Cyclic Damage in Composite Electrodes of Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 040527	3.9	19
69	Transient thermal stress due to the penetration of calcium-magnesium-alumino-silicate in EB-PVD thermal barrier coating system. <i>Ceramics International</i> , <b>2018</b> , 44, 12655-12663	5.1	19
68	Increased risk for COVID-19 breakthrough infection in fully vaccinated patients with substance use disorders in the United States between December 2020 and August 2021. <i>World Psychiatry</i> , <b>2021</b> ,	14.4	18
67	Association of Epigenetic Clock with Consensus Molecular Subtypes and Overall Survival of Colorectal Cancer. <i>Cancer Epidemiology Biomarkers and Prevention</i> , <b>2019</b> , 28, 1720-1724	4	16
66	All-Solid-State Lithium-Sulfur Batteries Enhanced by Redox Mediators. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 18188-18195	16.4	16
65	Immunotherapy-related adverse events (irAEs): extraction from FDA drug labels and comparative analysis. <i>JAMIA Open</i> , <b>2019</b> , 2, 173-178	2.9	15
64	Composite bending-dominated hollow nanolattices: A stiff, cyclable mechanical metamaterial. <i>Materials Today</i> , <b>2018</b> , 21, 467-474	21.8	15
63	A Morphologically Stable Li/Electrolyte Interface for All-Solid-State Batteries Enabled by 3D-Micropatterned Garnet. <i>Advanced Materials</i> , <b>2021</b> , 33, e2104009	24	15
62	Large-scale mining disease comorbidity relationships from post-market drug adverse events surveillance data. <i>BMC Bioinformatics</i> , <b>2018</b> , 19, 500	3.6	15
61	Nanograined surface fabricated on the pure copper by ultrasonic shot peening and an energy-density based criterion for peening intensity quantification. <i>Journal of Manufacturing Processes</i> , <b>2018</b> , 32, 656-663	5	14
60	Combining text classification and Hidden Markov Modeling techniques for categorizing sentences in randomized clinical trial abstracts <b>2006</b> , 824-8	0.7	14
59	Combining Human Disease Genetics and Mouse Model Phenotypes towards Drug Repositioning for Parkinson's disease <b>2015</b> , 2015, 1851-60	0.7	14
58	Strain rate sensitivity of the ultrastrong gradient nanocrystalline 316L stainless steel and its rate-dependent modeling at nanoscale. <i>International Journal of Plasticity</i> , <b>2020</b> , 129, 102696	7.6	13
57	A systems biology approach to predict and characterize human gut microbial metabolites in colorectal cancer. <i>Scientific Reports</i> , <b>2018</b> , 8, 6225	4.9	13

56	Microstructure, corrosion behaviour and thermal stability of AA 7150 after ultrasonic shot peening. <i>Surface and Coatings Technology</i> , <b>2020</b> , 398, 126127	4.4	12
55	A genomics-based systems approach towards drug repositioning for rheumatoid arthritis. <i>BMC Genomics</i> , <b>2016</b> , 17 Suppl 7, 518	4.5	12
54	Electrolyte-Resistant Dual Materials for the Synergistic Safety Enhancement of Lithium-Ion Batteries. <i>Nano Letters</i> , <b>2021</b> , 21, 2074-2080	11.5	12
53	Ultrasound-assisted water-confined laser micromachining (UWLM) of metals: Experimental study and time-resolved observation. <i>Journal of Materials Processing Technology</i> , <b>2017</b> , 245, 259-269	5.3	11
52	Enhanced Mechanical and Biological Performance of an Extremely Fine Nanograined 316L Stainless Steel Cell-Substrate Interface Fabricated by Ultrasonic Shot Peening. <i>ACS Biomaterials Science and Engineering</i> , <b>2018</b> , 4, 1609-1621	5.5	11
51	A Drug-Side Effect Context-Sensitive Network approach for drug target prediction. <i>Bioinformatics</i> , <b>2019</b> , 35, 2100-2107	7.2	11
50	Combining phenome-driven drug-target interaction prediction with patients' electronic health records-based clinical corroboration toward drug discovery. <i>Bioinformatics</i> , <b>2020</b> , 36, i436-i444	7.2	9
49	MetabolitePredict: A de novo human metabolomics prediction system and its applications in rheumatoid arthritis. <i>Journal of Biomedical Informatics</i> , <b>2017</b> , 71, 222-228	10.2	8
48	Predicting cancer origins with a DNA methylation-based deep neural network model. <i>PLoS ONE</i> , <b>2020</b> , 15, e0226461	3.7	8
47	An iterative approach to detect pleiotropy and perform Mendelian Randomization analysis using GWAS summary statistics. <i>Bioinformatics</i> , <b>2021</b> , 37, 1390-1400	7.2	8
46	Quantitative spatiotemporal Li profiling using nanoindentation. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2020</b> , 144, 104102	5	8
45	Predict Alzheimer's disease using hippocampus MRI data: a lightweight 3D deep convolutional network model with visual and global shape representations. <i>Alzheimer's Research and Therapy</i> , <b>2021</b> , 13, 104	9	8
44	Long distance chemical gradient induced by surface nanocrystallization. <i>Applied Materials Today</i> , <b>2019</b> , 14, 137-142	6.6	8
43	COVID-19 breakthrough infections, hospitalizations and mortality in fully vaccinated patients with hematologic malignancies: A clarion call for maintaining mitigation and ramping-up research.. <i>Blood Reviews</i> , <b>2022</b> , 100931	11.1	7
42	Disease comorbidity-guided drug repositioning: a case study in schizophrenia <b>2018</b> , 2018, 1300-1309	0.7	7
41	Context-sensitive network analysis identifies food metabolites associated with Alzheimer's disease: an exploratory study. <i>BMC Medical Genomics</i> , <b>2019</b> , 12, 17	3.7	6
40	Explore Small Molecule-induced Genome-wide Transcriptional Profiles for Novel Inflammatory Bowel Disease Drug. <i>AMIA Summits on Translational Science Proceedings</i> , <b>2016</b> , 2016, 22-31	1.1	6
39	Risks of SARS-CoV-2 Breakthrough Infection and Hospitalization in Fully Vaccinated Patients With Multiple Myeloma. <i>JAMA Network Open</i> , <b>2021</b> , 4, e2137575	10.4	6

38	Ultrastrong medium entropy alloy with simultaneous strength-ductility improvement via heterogeneous nanocrystalline structures. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 823, 141631	5.3	6
37	The Alzheimer's comorbidity phenome: mining from a large patient database and phenome-driven genetics prediction. <i>JAMIA Open</i> , <b>2019</b> , 2, 131-138	2.9	5
36	Microhole Drilling by Double Laser Pulses With Different Pulse Energies. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2018</b> , 140,	3.3	5
35	Modification of TGF-beta1 signaling pathway during NB4 cells differentiation by all-trans retinoid acid induction. <i>International Journal of Hematology</i> , <b>2009</b> , 89, 438-444	2.3	5
34	Epigenetic age acceleration and clinical outcomes in gliomas. <i>PLoS ONE</i> , <b>2020</b> , 15, e0236045	3.7	5
33	Aldehyde dehydrogenase 2 inhibited oxidized LDL-induced NLRP3 inflammasome priming and activation via attenuating oxidative stress. <i>Biochemical and Biophysical Research Communications</i> , <b>2020</b> , 529, 998-1004	3.4	4
32	Modelling and analysis of the oxide growth coupling behaviour of thermal barrier coatings. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 10270-10283	4.3	3
31	DenguePredict: An Integrated Drug Repositioning Approach towards Drug Discovery for Dengue <b>2015</b> , 2015, 1279-88	0.7	3
30	Combining mechanism-based prediction with patient-based profiling for psoriasis metabolomics biomarker discovery <b>2017</b> , 2017, 1734-1743	0.7	3
29	Gut-microbiota-microglia-brain interactions in Alzheimer's disease: knowledge-based, multi-dimensional characterization. <i>Alzheimer's Research and Therapy</i> , <b>2021</b> , 13, 177	9	3
28	Molecular subtyping of Alzheimer's disease with consensus non-negative matrix factorization. <i>PLoS ONE</i> , <b>2021</b> , 16, e0250278	3.7	3
27	Automatic extraction, prioritization and analysis of gut microbial metabolites from biomedical literature. <i>Scientific Reports</i> , <b>2020</b> , 10, 9996	4.9	2
26	CoMNRank: An integrated approach to extract and prioritize human microbial metabolites from MEDLINE records. <i>Journal of Biomedical Informatics</i> , <b>2020</b> , 109, 103524	10.2	2
25	Grooving of Metals by High-Intensity Focused Ultrasound-Assisted Water-Confined Laser Micromachining. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2021</b> , 143,	3.3	2
24	Numerical Analysis of stress evolution in thermal barrier coating system during two-stage growth of heterogeneous oxide. <i>Ceramics International</i> , <b>2021</b> , 47, 14311-14319	5.1	2
23	Potential long-term effect of tumor necrosis factor inhibitors on dementia risk: A propensity score matched retrospective cohort study in US veterans. <i>Alzheimer's and Dementia</i> , <b>2021</b> ,	1.2	2
22	Analysis of disease organ as a novel phenotype towards disease genetics understanding. <i>Journal of Biomedical Informatics</i> , <b>2019</b> , 95, 103235	10.2	1
21	tcTKB: an integrated cardiovascular toxicity knowledge base for targeted cancer drugs <b>2015</b> , 2015, 1342-51	5.1	1

20	Drug repositioning for prostate cancer: using a data-driven approach to gain new insights <b>2017</b> , 2017, 1724-1733	0.7	1
19	DenseCNN: A Densely Connected CNN Model for Alzheimer's Disease Classification Based on Hippocampus MRI Data <b>2020</b> , 2020, 1277-1286	0.7	1
18	An Automated Technique to Construct a Knowledge Base of Traditional Chinese Herbal Medicine for Cancers: An Exploratory Study for Breast Cancer. <i>Studies in Health Technology and Informatics</i> , <b>2018</b> , 247, 661-665	0.5	1
17	Effects of paired associative magnetic stimulation between nerve root and cortex on motor function of lower limbs after spinal cord injury: study protocol for a randomized controlled trial.. <i>Neural Regeneration Research</i> , <b>2022</b> , 17, 2459-2464	4.5	0
16	Reply to "Post-COVID 19 neurological syndrome: A new risk factor that modifies the prognosis of patients with dementia".. <i>Alzheimer's and Dementia</i> , <b>2022</b> ,	1.2	
15	Interrogating Patient-level Genomics and Mouse Phenomics towards Understanding Cytokines in Colorectal Cancer Metastasis. <i>AMIA Summits on Translational Science Proceedings</i> , <b>2017</b> , 2017, 227-236	1.1	
14	Risk, Racial Disparity, and Outcomes Among Patients With Cancer and COVID-19 Infection-Reply. <i>JAMA Oncology</i> , <b>2021</b> , 7, 1065-1066	13.4	
13	Relationship Between Smoking and Pressure Injury Risk: A Systematic Review and Meta-Analysis. <i>Wound Management and Prevention</i> , <b>2021</b> , 67, 34-46	1.1	
12	Predicting cancer origins with a DNA methylation-based deep neural network model <b>2020</b> , 15, e0226461		
11	Predicting cancer origins with a DNA methylation-based deep neural network model <b>2020</b> , 15, e0226461		
10	Predicting cancer origins with a DNA methylation-based deep neural network model <b>2020</b> , 15, e0226461		
9	Predicting cancer origins with a DNA methylation-based deep neural network model <b>2020</b> , 15, e0226461		
8	Tumor Necrosis Factor (TNF) blocking agents are associated with lower risk for Alzheimer's disease in patients with rheumatoid arthritis and psoriasis <b>2020</b> , 15, e0229819		
7	Tumor Necrosis Factor (TNF) blocking agents are associated with lower risk for Alzheimer's disease in patients with rheumatoid arthritis and psoriasis <b>2020</b> , 15, e0229819		
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4	Epigenetic age acceleration and clinical outcomes in gliomas <b>2020</b> , 15, e0236045		
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2 Epigenetic age acceleration and clinical outcomes in gliomas **2020**, 15, e0236045

1 Epigenetic age acceleration and clinical outcomes in gliomas **2020**, 15, e0236045