## Congrui Jin

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

50	746	16	<b>26</b>
papers	citations	h-index	g-index
53	1,005	5.9	4.55
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
50	Revitalizing interface in protonic ceramic cells by acid etch <i>Nature</i> , <b>2022</b> , 604, 479-485	50.4	10
49	Bio-inspired nanotechnology for easy-to-recycle lithium-ion batteries <b>2022</b> , 141-158		
48	Innovative and Economically Beneficial Use of Corn and Corn Products in Electrochemical Energy Storage Applications. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 10678-10703	8.3	1
47	Strength optimization of cementitious composites reinforced by carbon nanotubes and Titania nanoparticles. <i>Construction and Building Materials</i> , <b>2021</b> , 303, 124510	6.7	10
46	Exploring the structural uniformity and integrity of protonic ceramic thin film electrolyte using wet powder spraying. <i>Journal of Power Sources Advances</i> , <b>2021</b> , 11, 100067	3.3	3
45	Tin asymmetric membranes for high capacity sodium ion battery anodes. <i>Materials Today Communications</i> , <b>2020</b> , 24, 100998	2.5	1
44	Manufacturing Techniques of Thin Electrolyte for Planar Solid Oxide Electrochemical Cells. <i>Electrochemical Society Interface</i> , <b>2020</b> , 29, 47-53	3.6	2
43	Bio-inspired interfaces for easy-to-recycle lithium-ion batteries. <i>Extreme Mechanics Letters</i> , <b>2020</b> , 34, 100594	3.9	7
42	Etching Asymmetric Germanium Membranes with Hydrogen Peroxide for High-Capacity Lithium-Ion Battery Anodes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2020</b> , 217, 1900963	1.6	2
41	Protocol efficiently measuring the swelling rate of hydrogels. <i>MethodsX</i> , <b>2020</b> , 7, 100779	1.9	17
40	Asymmetric complementary interface for directional adhesion. <i>International Journal of Solids and Structures</i> , <b>2020</b> , 191-192, 110-121	3.1	
39	On electrolyte wetting through lithium-ion battery separators. Extreme Mechanics Letters, 2020, 40, 100	0360	6
38	Analysis of electrolyte imbibition through lithium-ion battery electrodes. <i>Journal of Power Sources</i> , <b>2019</b> , 424, 193-203	8.9	34
37	Screening of Fungi for Potential Application of Self-Healing Concrete. Scientific Reports, 2019, 9, 2075	4.9	38
36	Co-axial fibrous silicon asymmetric membranes for high-capacity lithium-ion battery anode. <i>Journal of Applied Electrochemistry</i> , <b>2019</b> , 49, 1013-1025	2.6	3
35	Effect of calendering and temperature on electrolyte wetting in lithium-ion battery electrodes. Journal of Energy Storage, <b>2019</b> , 26, 101034	7.8	24
34	Interactions of fungi with concrete: Significant importance for bio-based self-healing concrete. <i>Construction and Building Materials</i> , <b>2018</b> , 164, 275-285	6.7	63

## (2015-2018)

33	Anisotropic elastic, strength, and fracture properties of Marcellus shale. <i>International Journal of Rock Mechanics and Minings Sciences</i> , <b>2018</b> , 109, 124-137	6	59
32	Micron-size Silicon Monoxide Asymmetric Membranes for Highly Stable Lithium Ion Battery Anode. <i>ChemistrySelect</i> , <b>2018</b> , 3, 8662-8668	1.8	6
31	Characterization of Surface Free Energy of Composite Electrodes for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A2493-A2501	3.9	33
30	Fungi: A Neglected Candidate for the Application of Self-Healing Concrete. <i>Frontiers in Built Environment</i> , <b>2018</b> , 4,	2.2	13
29	Spherical indentation of a freestanding circular membrane revisited: Analytical solutions and experiments. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2017</b> , 100, 85-102	5	15
28	A multiscale framework for the simulation of the anisotropic mechanical behavior of shale.  International Journal for Numerical and Analytical Methods in Geomechanics, 2017, 41, 1494-1522	4	38
27	Reinvigorating Reverse-Osmosis Membrane Technology to Stabilize the V2O5 Lithium-Ion Battery Cathode. <i>ChemElectroChem</i> , <b>2017</b> , 4, 1181-1189	4.3	6
26	Elastic Microplane Formulation for Transversely Isotropic Materials. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2017</b> , 84,	2.7	7
25	Nanoindentation of compliant materials using Berkovich tips and flat tips. <i>Journal of Materials Research</i> , <b>2017</b> , 32, 435-450	2.5	17
24	Comment on Nanoindentation models and Young's modulus of monolayer graphene: A molecular dynamics study[[Appl. Phys. Lett. 102, 071908 (2013)]. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 176101	3.4	2
23	On the contact behavior of micro-/nano-structured interface used in vertical-contact-mode triboelectric nanogenerators. <i>Nano Energy</i> , <b>2016</b> , 27, 68-77	17.1	54
22	Integrated Experimental and Computational Characterization of Shale at Multiple Length Scales <b>2016</b> , 389-434		7
21	Mechanical characterization of crosslinking effect in polydimethylsiloxane using nanoindentation. <i>Polymer Testing</i> , <b>2016</b> , 56, 329-336	4.5	13
20	Numerical investigation of indentation tests on a transversely isotropic elastic material by power-law shaped axisymmetric indenters. <i>Journal of Adhesion Science and Technology</i> , <b>2016</b> , 30, 1223-	1242	6
19	Lattice discrete particle modeling of fiber reinforced concrete: Experiments and simulations. <i>European Journal of Mechanics, A/Solids</i> , <b>2016</b> , 57, 85-107	3.7	30
18	Deformation of Pyramidal PDMS Stamps During Microcontact Printing. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2016</b> , 83,	2.7	8
17	Fabrication of SnO2 Asymmetric Membranes for High Performance Lithium Battery Anode. <i>ACS Applied Materials &amp; District Membranes</i> , <b>2016</b> , 8, 13946-56	9.5	22
16	Dynamics Simulations of Concrete and Concrete Structures through the Lattice Discrete Particle Model <b>2015</b> ,		1

Microstructures: Structure and Energetics of Dislocations at Micro-Structured Complementary 15 Interfaces Govern Adhesion (Adv. Funct. Mater. 27/2013). Advanced Functional Materials, 2013, 23, 3452-3452 Structure and Energetics of Dislocations at Micro-Structured Complementary Interfaces Govern 14 15.6 Adhesion. Advanced Functional Materials, 2013, 23, 3453-3462 On the estimation of dynamic mass density of random composites. Journal of the Acoustical Society 13 2.2 4 of America, 2012, 132, 615-20 Analytical modelling of the electromechanical behaviour of surface-bonded piezoelectric actuators 12 4.2 37 including the adhesive layer. Engineering Fracture Mechanics, 2011, 78, 2547-2562 Adhesive contact between a rippled elastic surface and a rigid spherical indenter: from partial to 3.6 11 39 full contact. Soft Matter, 2011, 7, 10728 An easy-to-implement numerical simulation method for adhesive contact problems involving 10 12 asymmetric adhesive contact. Journal Physics D: Applied Physics, 2011, 44, 405303 Adhesion selectivity by electrostatic complementarity. II. Two-dimensional analysis. Journal of 6 9 2.5 *Applied Physics*, **2011**, 110, 054903 The Effect of Adhesive Layers on the Dynamic Behavior of Surface-bonded Piezoelectric Sensors 2.3 with Debonding. Journal of Intelligent Material Systems and Structures, 2011, 22, 655-670 Adhesion selectivity by electrostatic complementarity. I. One-dimensional stripes of charge. Journal 2.5 7 of Applied Physics, **2011**, 110, 054902 The dynamic behaviour of surface-bonded piezoelectric actuators with debonded adhesive layers. 6 2.1 24 Acta Mechanica, 2010, 211, 215-235 Theoretical study of mechanical behavior of thin circular film adhered to a flat punch. International 5 5.5 13 Journal of Mechanical Sciences, 2009, 51, 481-489 A theoretical study of a thin-film delamination using shaft-loaded blister test: Constitutive relation 20 without delamination. Journal of the Mechanics and Physics of Solids, 2008, 56, 2815-2831 Analysis of energy release rate and bending-to-stretching behavior in the shaft-loaded blister test. 3.1 13 International Journal of Solids and Structures, 2008, 45, 6485-6500 Molybdenum oxide nanoporous asymmetric membranes for high-capacity lithium ion battery 2.5 anode. Journal of Materials Research,1 Comment on Multiphase, Multiscale Chemomechanics at Extreme Low Temperatures: Battery 21.8 Electrodes for Operation in a Wide Temperature Range (Advanced Energy Materials, 2200686)