

# Fei Ren

## List of Publications by Citations

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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.

65

papers

1,103

citations

21

h-index

30

g-index

75

ext. papers

1,232

ext. citations

4.3

avg, IF

4.31

L-index

#	Paper	IF	Citations
65	Thermoelectric and mechanical properties of multi-walled carbon nanotube doped Bi <sub>0.4</sub> Sb <sub>1.6</sub> Te <sub>3</sub> thermoelectric material. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 221907	3.4	63
64	Structure Evolution and Thermoelectric Properties of Carbonized Polydopamine Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 6655-6660	9.5	53
63	The high-temperature elastic moduli of polycrystalline PbTe measured by resonant ultrasound spectroscopy. <i>Acta Materialia</i> , <b>2008</b> , 56, 5954-5963	8.4	51
62	Resonant ultrasound spectroscopy measurement of Young's modulus, shear modulus and Poisson's ratio as a function of porosity for alumina and hydroxyapatite. <i>Philosophical Magazine</i> , <b>2009</b> , 89, 1163-1182	1.6	49
61	Nanostructured Thermoelectric Materials and High-Efficiency Power-Generation Modules. <i>Journal of Electronic Materials</i> , <b>2007</b> , 36, 704-710	1.9	47
60	Thermal runaway risk evaluation of Li-ion cells using a pinch torsion test. <i>Journal of Power Sources</i> , <b>2014</b> , 249, 156-162	8.9	46
59	Hardness as a function of composition for n-type LAST thermoelectric material. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 455, 340-345	5.7	41
58	Part I: porosity dependence of the Weibull modulus for hydroxyapatite and other brittle materials. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2012</b> , 8, 21-36	4.1	40
57	Electrical and mechanical properties of poly(dopamine)-modified copper/reduced graphene oxide composites. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 11620-11629	4.3	39
56	The development of in situ fracture toughness evaluation techniques in hydrogen environment. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 2013-2024	6.7	39
55	Investigating fracture behavior of polymer and polymeric composite materials using spiral notch torsion test. <i>Engineering Fracture Mechanics</i> , <b>2013</b> , 101, 109-128	4.2	38
54	Part II: fracture strength and elastic modulus as a function of porosity for hydroxyapatite and other brittle materials. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2012</b> , 8, 99-110	4.1	37
53	Rehabilitation of notch damaged steel beams using a carbon fiber reinforced hybrid polymeric-matrix composite. <i>Composite Structures</i> , <b>2013</b> , 106, 690-702	5.3	36
52	Temperature-dependent elastic moduli of lead telluride-based thermoelectric materials. <i>Philosophical Magazine</i> , <b>2009</b> , 89, 143-167	1.6	31
51	Weibull analysis of the biaxial fracture strength of a cast p-type LAST-T thermoelectric material. <i>Philosophical Magazine Letters</i> , <b>2006</b> , 86, 673-682	1	29
50	Young's modulus as a function of composition for an n-type lead-antimony-silver-telluride (LAST) thermoelectric material. <i>Philosophical Magazine</i> , <b>2007</b> , 87, 4907-4934	1.6	27
49	Porosity dependence of elastic moduli in LAST (Lead-antimony-silver-tellurium) thermoelectric materials. <i>Materials Chemistry and Physics</i> , <b>2009</b> , 118, 459-466	4.4	26

48	Visualizing the structural evolution of LSM/xYSZ composite cathodes for SOFC by in-situ neutron diffraction. <i>Scientific Reports</i> , <b>2014</b> , 4, 5179	4.9	25
47	Characterization of dry milled powders of LAST (lead–Antimony–Silver–Tellurium) thermoelectric material. <i>Philosophical Magazine</i> , <b>2007</b> , 87, 4567-4591	1.6	25
46	Confocal laser scanning microscopy as a tool for imaging cancellous bone. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2006</b> , 79, 185-92	3.5	22
45	Failure analysis of pinch-torsion tests as a thermal runaway risk evaluation method of Li-ion cells. <i>Journal of Power Sources</i> , <b>2014</b> , 265, 356-362	8.9	21
44	Cooling performance of transverse thermoelectric devices. <i>International Journal of Heat and Mass Transfer</i> , <b>2016</b> , 95, 787-794	4.9	19
43	Kirigami-Inspired Conducting Polymer Thermoelectrics from Electrostatic Recognition Driven Assembly. <i>ACS Nano</i> , <b>2018</b> , 12, 7967-7973	16.7	18
42	Reciprocated suppression of polymer crystallization toward improved solid polymer electrolytes: Higher ion conductivity and tunable mechanical properties. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2015</b> , 53, 1450-1457	2.6	18
41	Three-Dimensional Microstructural Characterization of Porous Hydroxyapatite Using Confocal Laser Scanning Microscopy. <i>International Journal of Applied Ceramic Technology</i> , <b>2005</b> , 2, 200-211	2	18
40	Development of Thermoelectric Fibers for Miniature Thermoelectric Devices. <i>Journal of Electronic Materials</i> , <b>2016</b> , 45, 1412-1418	1.9	16
39	Anomalous temperature-dependent Young's modulus of a cast LAST (Pb–Bi–Ag–Te) thermoelectric material. <i>Acta Materialia</i> , <b>2010</b> , 58, 31-38	8.4	15
38	Effect of projectile impact and penetration on the phase composition and microstructure of high performance concretes. <i>Cement and Concrete Composites</i> , <b>2013</b> , 41, 1-8	8.6	14
37	Mechanical Characterization of PbTe-based Thermoelectric Materials. <i>Materials Research Society Symposia Proceedings</i> , <b>2007</b> , 1044, 1		14
36	Elastic modulus, biaxial fracture strength, electrical and thermal transport properties of thermally fatigued hot pressed LAST and LASTT thermoelectric materials. <i>Materials Chemistry and Physics</i> , <b>2012</b> , 134, 973-987	4.4	13
35	Preparation and electrical properties of sintered copper powder compacts modified by polydopamine-derived carbon nanofilms. <i>Journal of Materials Science</i> , <b>2018</b> , 53, 6562-6573	4.3	12
34	Structural evolution and electrical properties of metal ion-containing polydopamine. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 6393-6400	4.3	12
33	Mechanical properties of polydopamine (PDA) thin films. <i>MRS Advances</i> , <b>2019</b> , 4, 405-412	0.7	11
32	Chemically Driven Interfacial Coupling in Charge-Transfer Mediated Functional Superstructures. <i>Nano Letters</i> , <b>2016</b> , 16, 2851-9	11.5	11
31	Synthesis and catalytic performance of polydopamine supported metal nanoparticles. <i>Scientific Reports</i> , <b>2020</b> , 10, 10416	4.9	10

30	Agglomeration during wet milling of LAST (lead-antimony-silver-tellurium) powders. <i>Materials Chemistry and Physics</i> , <b>2009</b> , 113, 497-502	4.4	10
29	Nanostructure enhanced ionic transport in fullerene reinforced solid polymer electrolytes. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 8266-75	3.6	9
28	Fractographic study of epoxy under mode I and mixed mode I/III loading. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2012</b> , 532, 449-455	5.3	9
27	Temperature-dependent thermal expansion of cast and hot-pressed LAST (PbSbAgTe) thermoelectric materials. <i>Philosophical Magazine</i> , <b>2009</b> , 89, 1439-1455	1.6	8
26	In situ neutron scattering study of nanoscale phase evolution in PbTe-PbS thermoelectric material. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 081903	3.4	8
25	Copper-polydopamine composite derived from bioinspired polymer coating. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 742, 191-198	5.7	7
24	Machining and Ceramic/Ceramic Joining to Form Internal Mesoscale Channels. <i>International Journal of Applied Ceramic Technology</i> , <b>2005</b> , 1, 95-103	2	7
23	Electron-beam induced in situ growth of self-supported metal nanoparticles in ion-containing polydopamine. <i>Materials Letters</i> , <b>2019</b> , 252, 277-281	3.3	6
22	Transverse Thermoelectricity in Fibrous Composite Materials. <i>Energies</i> , <b>2017</b> , 10, 1006	3.1	5
21	Enhancing the electrical and mechanical properties of copper by introducing nanocarbon derived from polydopamine coating. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 778, 288-293	5.7	5
20	Effect of material anisotropy on the transverse thermoelectricity of layered composites. <i>International Journal of Energy Research</i> , <b>2019</b> , 43, 181-188	4.5	5
19	Structure-Mechanical Property Relations of Skin-Core Regions of Poly(p-phenylene terephthalamide) Single Fiber. <i>Scientific Reports</i> , <b>2019</b> , 9, 740	4.9	4
18	In Situ Neutron Scattering Study of Nanostructured PbTe-PbS Bulk Thermoelectric Material. <i>Journal of Electronic Materials</i> , <b>2017</b> , 46, 2604-2610	1.9	4
17	Room-temperature mechanical properties of LAST (PbSbAgTe) thermoelectric materials as a function of cooling rate during ingot casting. <i>Philosophical Magazine Letters</i> , <b>2009</b> , 89, 267-275	1	4
16	Electrical Contact Fabrication and Measurements of Metals and Alloys to Thermoelectric Materials. <i>Materials Research Society Symposia Proceedings</i> , <b>2007</b> , 1044, 1		4
15	Nanoindentation study of time-dependent mechanical properties of ultra-high-molecular-weight polyethylene (UHMWPE) at different temperatures. <i>Polymer Testing</i> , <b>2020</b> , 91, 106787	4.5	4
14	Thermal Expansion Study and Microstructural Characterization of High-Performance Concretes. <i>Journal of Materials in Civil Engineering</i> , <b>2013</b> , 25, 1574-1578	3	3
13	Improving Interlayer Adhesion of Poly(p-phenylene terephthalamide) (PPTA)/Ultra-high-molecular-weight Polyethylene (UHMWPE) Laminates Prepared by Plasma Treatment and Hot Pressing Technique. <i>Polymers</i> , <b>2021</b> , 13,	4.5	3

12	Steel-Concrete Composite Vessel for Stationary High-Pressure Hydrogen Storage <b>2016</b> ,		2
11	Biopolymer-Assisted Manufacturing of Aluminum-Copper Nanoparticle Composites with Enhanced Sinterability. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 5688-5694	5.6	2
10	Effect of composite coating on insertion mechanics of needle structure in soft materials. <i>Medical Engineering and Physics</i> , <b>2021</b> , 95, 104-110	2.4	2
9	Nanoparticle-Infused UHMWPE Layer as Multifunctional Coating for High-Performance PPTA Single Fibers. <i>Scientific Reports</i> , <b>2019</b> , 9, 7183	4.9	1
8	An in situ SEM experimental study of the thermal stability of a LAST thermoelectric material. <i>Philosophical Magazine Letters</i> , <b>2011</b> , 91, 443-451	1	1
7	Alternative approach for cavitation damage study utilizing repetitive laser pulses. <i>Wear</i> , <b>2010</b> , 270, 115-119	3.9	1
6	Development of copper powder paste for direct printing and soft mold casting. <i>Additive Manufacturing</i> , <b>2020</b> , 31, 100992	6.1	1
5	Wear Study of Cubic Boron Nitride (cBN) Cutting Tool for Machining of Compacted Graphite Iron (CGI) with Different Metalworking Fluids. <i>Lubricants</i> , <b>2022</b> , 10, 51	3.1	1
4	Freestanding Polymer Assembly Conductor by Contact-Free Annealing. <i>ACS Applied Polymer Materials</i> , <b>2019</b> , 1, 3196-3202	4.3	
3	Nanostructure-Driven Ion Transport in PCBM-Based Polymer Electrolytes. <i>ECS Transactions</i> , <b>2014</b> , 61, 31-33	1	
2	Solid-State Synthesis and Some Properties of Magnesium-Doped Copper Aluminum Oxides. <i>Materials Research Society Symposia Proceedings</i> , <b>2009</b> , 1218, 1		
1	Study on the Fabrication and Characterization of LAST and LASTT Based Thermoelectric Generators. <i>Materials Research Society Symposia Proceedings</i> , <b>2007</b> , 1044, 1		