

Hamideh Khanbareh

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

1,627
citations

304743

22
h-index

289244

40
g-index

49
all docs

49
docs citations

49
times ranked

1575
citing authors

#	ARTICLE	IF	CITATIONS
1	Control of electro-chemical processes using energy harvesting materials and devices. <i>Chemical Society Reviews</i> , 2017, 46, 7757-7786.	38.1	135
2	Flexible and active self-powered pressure, shear sensors based on freeze casting ceramic-polymer composites. <i>Energy and Environmental Science</i> , 2018, 11, 2919-2927.	30.8	130
3	Construction of Bio-Piezoelectric Platforms: From Structures and Synthesis to Applications. <i>Advanced Materials</i> , 2021, 33, e2008452.	21.0	114
4	Ferroelectret materials and devices for energy harvesting applications. <i>Nano Energy</i> , 2019, 57, 118-140.	16.0	108
5	Thermal Energy Harvesting Using Pyroelectric-Electrochemical Coupling in Ferroelectric Materials. <i>Joule</i> , 2020, 4, 301-309.	24.0	103
6	Understanding the effect of porosity on the polarisation-field response of ferroelectric materials. <i>Acta Materialia</i> , 2018, 154, 100-112.	7.9	97
7	Indentation creep of lead-free Sn-9Zn and Sn-8Zn-3Bi solder alloys. <i>Materials & Design</i> , 2009, 30, 574-580.	5.1	72
8	Piezoelectric energy harvesting for self-powered wearable upper limb applications. <i>Nano Select</i> , 2021, 2, 1459-1479.	3.7	72
9	Modified energy harvesting figures of merit for stress- and strain-driven piezoelectric systems. <i>European Physical Journal: Special Topics</i> , 2019, 228, 1537-1554.	2.6	66
10	Demonstration of Enhanced Piezo-Catalysis for Hydrogen Generation and Water Treatment at the Ferroelectric Curie Temperature. <i>IScience</i> , 2020, 23, 101095.	4.1	64
11	In situ observation of austenite-ferrite interface migration in a lean Mn steel during cyclic partial phase transformations. <i>Acta Materialia</i> , 2013, 61, 2414-2424.	7.9	54
12	Structure, dielectric and piezoelectric properties of donor doped PZT ceramics across the phase diagram. <i>Ferroelectrics</i> , 2016, 504, 160-171.	0.6	48
13	Self-Healing of Materials under High Electrical Stress. <i>Matter</i> , 2020, 3, 989-1008.	10.0	47
14	Additively manufactured BaTiO ₃ composite scaffolds: A novel strategy for load bearing bone tissue engineering applications. <i>Materials Science and Engineering C</i> , 2021, 126, 112192.	7.3	42
15	Effect of dielectrophoretic structuring on piezoelectric and pyroelectric properties of lead titanate-epoxy composites. <i>Smart Materials and Structures</i> , 2014, 23, 105030.	3.5	40
16	Piezoelectric catalysis for efficient reduction of CO ₂ using lead-free ferroelectric particulates. <i>Nano Energy</i> , 2022, 95, 107032.	16.0	40
17	Polarisation tuneable piezo-catalytic activity of Nb-doped PZT with low Curie temperature for efficient CO ₂ reduction and H ₂ generation. <i>Nanoscale Advances</i> , 2021, 3, 1362-1374.	4.6	39
18	Effect of cooling rate on the room-temperature impression. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 487, 20-25.	5.6	35

#	ARTICLE	IF	CITATIONS
19	Harnessing Plasticity in an Amine-Borane as a Piezoelectric and Pyroelectric Flexible Film. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 7808-7812.	13.8	32
20	High voltage coefficient piezoelectric materials and their applications. <i>Journal of the European Ceramic Society</i> , 2021, 41, 6115-6129.	5.7	32
21	Flexible ferroelectric wearable devices for medical applications. <i>IScience</i> , 2021, 24, 101987.	4.1	29
22	Large area and flexible micro-porous piezoelectric materials for soft robotic skin. <i>Sensors and Actuators A: Physical</i> , 2017, 263, 554-562.	4.1	28
23	Analysis of the fractal dimension of grain boundaries of AA7050 aluminum alloys and its relationship to fracture toughness. <i>Journal of Materials Science</i> , 2012, 47, 6246-6253.	3.7	21
24	Piezoelectric materials and systems for tissue engineering and implantable energy harvesting devices for biomedical applications. <i>International Materials Reviews</i> , 2022, 67, 683-733.	19.3	21
25	In-situ poling and structurization of piezoelectric particulate composites. <i>Journal of Intelligent Material Systems and Structures</i> , 2017, 28, 2467-2472.	2.5	18
26	Functionally graded ferroelectric polyetherimide composites for high temperature sensing. <i>Journal of Materials Chemistry C</i> , 2017, 5, 9389-9397.	5.5	18
27	Piezoelectric and pyroelectric properties of conductive polyethylene oxide-lead titanate composites. <i>Smart Materials and Structures</i> , 2015, 24, 045020.	3.5	17
28	High Efficiency Water Splitting using Ultrasound Coupled to a BaTiO ₃ Nanofluid. <i>Advanced Science</i> , 2022, 9, e2105248.	11.2	17
29	A comparison of impression, indentation and impression-relaxation creep of lead-free Sn ⁹² Zn and Sn ⁸² Zn ³ Bi solders at room temperature. <i>Journal of Materials Science: Materials in Electronics</i> , 2009, 20, 312-318.	2.2	16
30	Computational modeling of structure formation during dielectrophoresis in particulate composites. <i>Computational Materials Science</i> , 2016, 112, 139-146.	3.0	15
31	Highly sensitive piezo particulate-polymer foam composites for robotic skin application. <i>Ferroelectrics</i> , 2017, 515, 25-33.	0.6	13
32	Piezo-Particulate Composites. <i>Springer Series in Materials Science</i> , 2019, , .	0.6	8
33	Piezoelectric performance of PZT-based materials with aligned porosity: experiment and modelling. <i>Smart Materials and Structures</i> , 2019, 28, 125021.	3.5	7
34	Harnessing Plasticity in an Amine-Borane as a Piezoelectric and Pyroelectric Flexible Film. <i>Angewandte Chemie</i> , 2020, 132, 7882-7886.	2.0	5
35	Effect of isothermal aging on room temperature impression creep of lead free Sn ⁹² Zn and Sn ⁸² Zn ³ Bi solders. <i>Materials Science and Technology</i> , 2010, 26, 1001-1007.	1.6	4
36	Bio-Piezoelectric Platforms: Construction of Bio-Piezoelectric Platforms: From Structures and Synthesis to Applications (<i>Adv. Mater.</i> 27/2021). <i>Advanced Materials</i> , 2021, 33, 2170206.	21.0	4

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37	A temperature oscillation instrument to determine pyroelectric properties of materials at low frequencies: Towards elimination of lock-in methods. <i>Review of Scientific Instruments</i> , 2015, 86, 105111.	1.3	3
38	Advanced processing of lead titanate-polyimide composites for high temperature piezoelectric sensing. , 2015, , .		3
39	NiOâ€Ti nanocomposites for contact electrification and energy harvesting: experimental and DFT+ <i>U</i> studies. <i>Sustainable Energy and Fuels</i> , 2022, 6, 2439-2448.	4.9	3
40	Piezoelectric and pyroelectric properties of lead titanate-polyethylene oxide composites. , 2014, , .		2
41	IEEE Access Special Section Editorial: Energy Harvesting Technologies for Wearable and Implantable Devices. <i>IEEE Access</i> , 2021, 9, 91324-91327.	4.2	2
42	Piezoelectric composites. , 2022, , 457-475.		2
43	Effect of topological imperfections on the electroâ€mechanical properties of structured piezoelectric particulate composites. <i>JPhys Materials</i> , 2020, 3, 014004.	4.2	1
44	Experimental Studies on Effective Properties and Related Parameters of Piezo-Particulate Composites. <i>Springer Series in Materials Science</i> , 2019, , 55-85.	0.6	0
45	Aspects of Composite Manufacturing. <i>Springer Series in Materials Science</i> , 2019, , 25-53.	0.6	0
46	Prediction of Effective Properties of Composites Based on Ferroelectric Ceramics. <i>Springer Series in Materials Science</i> , 2019, , 103-141.	0.6	0
47	Tailoring porous piezoelectric properties for selected modes of energy harvesting. , 2019, , .		0