

Mohammad H Malakooti

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5835220/publications.pdf>

Version: 2024-02-01

59
papers

2,350
citations

201674

27
h-index

289244

40
g-index

59
all docs

59
docs citations

59
times ranked

2558
citing authors

#	ARTICLE	IF	CITATIONS
1	EGaIn-Assisted Room-Temperature Sintering of Silver Nanoparticles for Stretchable, Inkjet-Printed, Thin-Film Electronics. <i>Advanced Materials</i> , 2018, 30, e1801852.	21.0	225
2	A Liquid-Metal-Elastomer Nanocomposite for Stretchable Dielectric Materials. <i>Advanced Materials</i> , 2019, 31, e1900663.	21.0	204
3	Solution processable liquid metal nanodroplets by surface-initiated atom transfer radical polymerization. <i>Nature Nanotechnology</i> , 2019, 14, 684-690.	31.5	191
4	Liquid Metal Supercooling for Low-Temperature Thermoelectric Wearables. <i>Advanced Functional Materials</i> , 2019, 29, 1906098.	14.9	142
5	Isolation of Aramid Nanofibers for High Strength and Toughness Polymer Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 11167-11175.	8.0	125
6	Aramid nanofibers for multiscale fiber reinforcement of polymer composites. <i>Composites Science and Technology</i> , 2018, 161, 92-99.	7.8	115
7	Soft and Stretchable Thermoelectric Generators Enabled by Liquid Metal Elastomer Composites. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 17921-17928.	8.0	115
8	Liquid metal nanocomposites. <i>Nanoscale Advances</i> , 2020, 2, 2668-2677.	4.6	88
9	Increased inter-yarn friction through ZnO nanowire arrays grown on aramid fabric. <i>Composites Science and Technology</i> , 2015, 107, 75-81.	7.8	83
10	ZnO nanowire interfaces for high strength multifunctional composites with embedded energy harvesting. <i>Energy and Environmental Science</i> , 2016, 9, 634-643.	30.8	83
11	Lead-free $0.5\text{Ba}(\text{Zr}_{0.2}\text{Ti}_{0.8})\text{O}_3 \approx 0.5(\text{Ba}_{0.7}\text{Ca}_{0.3})\text{TiO}_3$ nanowires for energy harvesting. <i>Nanoscale</i> , 2016, 8, 5098-5105.	3.3	69
12	Self-healing polymers and composites for extreme environments. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17403-17411.	10.3	68
13	Morphology-Controlled ZnO Nanowire Arrays for Tailored Hybrid Composites with High Damping. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 332-339.	8.0	67
14	Printed Nanocomposite Energy Harvesters with Controlled Alignment of Barium Titanate Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 38359-38367.	8.0	59
15	Piezoelectric energy harvesting through shear mode operation. <i>Smart Materials and Structures</i> , 2015, 24, 055005.	3.5	54
16	Multi-Inclusion modeling of multiphase piezoelectric composites. <i>Composites Part B: Engineering</i> , 2013, 47, 181-189.	12.0	50
17	Design and modeling of a flexible longitudinal zigzag structure for enhanced vibration energy harvesting. <i>Journal of Intelligent Material Systems and Structures</i> , 2017, 28, 367-380.	2.5	48
18	Role of ZnO nanowire arrays on the impact response of aramid fabrics. <i>Composites Part B: Engineering</i> , 2017, 127, 222-231.	12.0	47

#	ARTICLE	IF	CITATIONS
19	Relationship between orientation factor of lead zirconate titanate nanowires and dielectric permittivity of nanocomposites. Applied Physics Letters, 2013, 103, .	3.3	41
20	Multifunctional liquid metal polymer composites. Journal of Polymer Science, 2022, 60, 1300-1327.	3.8	39
21	Functional liquid metal nanoparticles: synthesis and applications. Materials Advances, 2021, 2, 7799-7819.	5.4	37
22	A double inclusion model for liquid metal polymer composites. Composites Science and Technology, 2021, 208, 108752.	7.8	35
23	Noncontact and simultaneous measurement of the d_{33} and d_{31} piezoelectric strain coefficients. Applied Physics Letters, 2013, 102, .	3.3	34
24	Tailored inter yarn friction in aramid fabrics through morphology control of surface grown ZnO nanowires. Composites Part A: Applied Science and Manufacturing, 2015, 76, 326-333.	7.6	34
25	Thermally Stable Poly(vinylidene fluoride) for High-Performance Printable Piezoelectric Devices. ACS Applied Materials & Interfaces, 2020, 12, 21871-21882.	8.0	34
26	Novel self-healing CFRP composites with high glass transition temperatures. Composites Science and Technology, 2018, 168, 96-103.	7.8	32
27	Liquid metal architectures for soft and wearable energy harvesting devices. Multifunctional Materials, 2021, 4, 012001.	3.7	32
28	Barium Titanate Film Interfaces for Hybrid Composite Energy Harvesters. ACS Applied Materials & Interfaces, 2017, 9, 4057-4065.	8.0	28
29	Biomimetic Nanostructured Interfaces for Hierarchical Composites. Advanced Materials Interfaces, 2016, 3, 1500404.	3.7	26
30	Conformal BaTiO ₃ Films with High Piezoelectric Coupling through an Optimized Hydrothermal Synthesis. ACS Applied Materials & Interfaces, 2016, 8, 21446-21453.	8.0	24
31	Direct measurement of piezoelectric shear coefficient. Journal of Applied Physics, 2013, 113, 214106.	2.5	22
32	Highly aligned arrays of high aspect ratio barium titanate nanowires via hydrothermal synthesis. Applied Physics Letters, 2015, 106, .	3.3	21
33	Enhanced energy harvesting through nanowire based functionally graded interfaces. Nano Energy, 2018, 52, 171-182.	16.0	21
34	Active photo-thermal self-healing of shape memory polyurethanes. Smart Materials and Structures, 2017, 26, 055003.	3.5	19
35	Toughening mechanism of heterogeneous aliphatic polyurethanes. Polymer, 2014, 55, 2086-2093.	3.8	15
36	Toughening response of a crack-tip surrounded by a local elastic gradient. Smart Materials and Structures, 2014, 23, 035009.	3.5	6

#	ARTICLE	IF	CITATIONS
37	Shear mode energy harvesting of piezoelectric sandwich beam. Proceedings of SPIE, 2013, , .	0.8	4
38	Electromechanical Characterization of Piezoelectric Shear Actuators. , 2013, , .		2
39	Development of multifunctional fiber reinforced polymer composites through ZnO nanowire arrays. , 2016, , .		2
40	Piezoelectric interfaces enabled energy harvesting and tailored damping in fiber composites. Proceedings of SPIE, 2017, , .	0.8	2
41	Stretchable Electronics: EGaIn-Assisted Room-Temperature Sintering of Silver Nanoparticles for Stretchable, Inkjet-Printed, Thin-Film Electronics (Adv. Mater. 29/2018). Advanced Materials, 2018, 30, 1870215.	21.0	2
42	Characterization of lead zirconate titanate microwires using digital image correlation. , 2015, , .		1
43	Energy harvesting from vertically aligned PZT nanowire arrays. Proceedings of SPIE, 2016, , .	0.8	1
44	Fabrication of Soft and Stretchable Electronics Through Integration of Printed Silver Nanoparticles and Liquid Metal Alloy. , 2018, , .		1
45	Liquid metal composites for flexible thermoelectric energy harvesting. , 2021, , .		1
46	Micromechanics modeling of multifunctional EGaIn-polymer composites. , 2022, , .		1
47	Micromechanics Modeling of Multiphase Piezoelectric Composites. , 2012, , .		0
48	Fracture Modeling of an Embedded Crack in Self-Healing Polymers. , 2012, , .		0
49	Modification of Pullout Behavior of Kevlar Fabric by Zinc Oxide Nanowire Reinforcement. , 2013, , .		0
50	Simultaneous measurement of longitudinal and lateral piezoelectric strain coefficients using digital image correlation. Proceedings of SPIE, 2013, , .	0.8	0
51	Vibration Damping Enhancement in Hybrid Carbon Fiber Composites With Zinc Oxide Nanowire Interphase. , 2014, , .		0
52	Power generation from base excitation of a Kevlar composite beam with ZnO nanowires. Proceedings of SPIE, 2015, , .	0.8	0
53	Conformal Growth of Textured Barium Titanate Films on Patterned Silicon Wafer. , 2016, , .		0
54	Optimized Parameters for Synthesis of BaTiO ₃ Films With High Electromechanical Coupling. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
55	Strain analysis of nanowire interfaces in multiscale composites. Proceedings of SPIE, 2016, , .	0.8	0
56	Energy Harvesting Performance of Printed Barium Titanate Nanocomposites. , 2018, , .		0
57	Editorial for the Special Issue on Advanced Fiber-Reinforced Polymer Composites. Journal of Composites Science, 2021, 5, 241.	3.0	0
58	Visualization of Particle-Toughening Mechanism in Transparent Polyurethanes. , 2014, , .		0
59	Isolation of Aramid nanofibers for high strength multiscale fiber reinforced composites. , 2018, , .		0