

# Fariborz Kargar

## List of Publications by Citations

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41  
papers

1,314  
citations

19  
h-index

35  
g-index

47  
ext. papers

1,744  
ext. citations

8.2  
avg, IF

5.09  
L-index

#	Paper	IF	Citations
41	Thermal Percolation Threshold and Thermal Properties of Composites with High Loading of Graphene and Boron Nitride Fillers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 37555-37565	9.5	173
40	Magnetically-functionalized self-aligning graphene fillers for high-efficiency thermal management applications. <i>Materials and Design</i> , <b>2015</b> , 88, 214-221	8.1	141
39	Dual-Functional Graphene Composites for Electromagnetic Shielding and Thermal Management. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1800558	6.4	133
38	Thermal Properties of the Binary-Filler Hybrid Composites with Graphene and Copper Nanoparticles. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1904008	15.6	110
37	Thermal and electrical conductivity control in hybrid composites with graphene and boron nitride fillers. <i>Materials Research Express</i> , <b>2019</b> , 6, 085325	1.7	76
36	Spin-phonon coupling in antiferromagnetic nickel oxide. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 252402	3.4	70
35	Direct observation of confined acoustic phonon polarization branches in free-standing semiconductor nanowires. <i>Nature Communications</i> , <b>2016</b> , 7, 13400	17.4	51
34	Noncuring Graphene Thermal Interface Materials for Advanced Electronics. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 1901303	6.4	46
33	Coexistence of Magnetic Orders in Two-Dimensional Magnet CrI. <i>Nano Letters</i> , <b>2020</b> , 20, 553-558	11.5	40
32	Bias-Voltage Driven Switching of the Charge-Density-Wave and Normal Metallic Phases in 1T-TaS Thin-Film Devices. <i>ACS Nano</i> , <b>2019</b> , 13, 7231-7240	16.7	38
31	Thermal interface materials with graphene fillers: review of the state of the art and outlook for future applications. <i>Nanotechnology</i> , <b>2021</b> , 32, 142003	3.4	37
30	Multifunctional Graphene Composites for Electromagnetic Shielding and Thermal Management at Elevated Temperatures. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 2000520	6.4	33
29	Acoustic phonon spectrum and thermal transport in nanoporous alumina arrays. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 171904	3.4	32
28	Variable-temperature inelastic light scattering spectroscopy of nickel oxide: Disentangling phonons and magnons. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 202406	3.4	29
27	Ultrastiff, Strong, and Highly Thermally Conductive Crystalline Graphitic Films with Mixed Stacking Order. <i>Advanced Materials</i> , <b>2019</b> , 31, e1903039	24	27
26	Graphene Epoxy-Based Composites as Efficient Electromagnetic Absorbers in the Extremely High-Frequency Band. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 28635-28644	9.5	27
25	Phonon and Thermal Properties of Quasi-Two-Dimensional FePS and MnPS Antiferromagnetic Semiconductors. <i>ACS Nano</i> , <b>2020</b> , 14, 2424-2435	16.7	24

24	Proton-irradiation-immune electronics implemented with two-dimensional charge-density-wave devices. <i>Nanoscale</i> , <b>2019</b> , 11, 8380-8386	7.7	22
23	Electrically Insulating Flexible Films with Quasi-1D van der Waals Fillers as Efficient Electromagnetic Shields in the GHz and Sub-THz Frequency Bands. <i>Advanced Materials</i> , <b>2021</b> , 33, e2007286	2.4	22
22	Low-frequency noise spectroscopy of charge-density-wave phase transitions in vertical quasi-2D 1T-TaS <sub>2</sub> devices. <i>Applied Physics Express</i> , <b>2019</b> , 12, 037001	2.4	19
21	Power Cycling and Reliability Testing of Epoxy-Based Graphene Thermal Interface Materials. <i>Journal of Carbon Research</i> , <b>2020</b> , 6, 26	3.3	15
20	Non-Curing Thermal Interface Materials with Graphene Fillers for Thermal Management of Concentrated Photovoltaic Solar Cells. <i>Journal of Carbon Research</i> , <b>2020</b> , 6, 2	3.3	13
19	Advances in Brillouin-Mandelstam light-scattering spectroscopy. <i>Nature Photonics</i> , <b>2021</b> , 15, 720-731	33.9	13
18	Acoustic phonon spectrum engineering in bulk crystals via incorporation of dopant atoms. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 191902	3.4	13
17	The discrete noise of magnons. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 090601	3.4	10
16	Specifics of Thermal Transport in Graphene Composites: Effect of Lateral Dimensions of Graphene Fillers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> ,	9.5	9
15	Low-Frequency Electronic Noise in Quasi-2D van der Waals Antiferromagnetic Semiconductor FePS <sub>3</sub> Signatures of Phase Transitions. <i>Advanced Electronic Materials</i> , 2100408	6.4	9
14	Strong Hot Carrier Effects in Single Nanowire Heterostructures. <i>Nano Letters</i> , <b>2019</b> , 19, 5062-5069	11.5	8
13	Noncured Graphene Thermal Interface Materials for High-Power Electronics: Minimizing the Thermal Contact Resistance. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	7
12	Low-frequency electronic noise in superlattice and random-packed thin films of colloidal quantum dots. <i>Nanoscale</i> , <b>2019</b> , 11, 20171-20178	7.7	7
11	Phononic and photonic properties of shape-engineered silicon nanoscale pillar arrays. <i>Nanotechnology</i> , <b>2020</b> , 31, 30LT01	3.4	6
10	A comparative study of the thermal interface materials with graphene and boron nitride fillers <b>2014</b> ,		5
9	Excess noise in high-current diamond diodes. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 062103	3.4	5
8	Evidence for a thermally driven charge-density-wave transition in 1T-TaS <sub>2</sub> thin-film devices: Prospects for GHz switching speed. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 093102	3.4	5
7	Room temperature depinning of the charge-density waves in quasi-two-dimensional 1T-TaS <sub>2</sub> devices. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 223101	3.4	5

6	Electromagnetic-Polarization-Selective Composites with Quasi-1D Van der Waals Fillers: Nanoscale Material Functionality That Mimics Macroscopic Systems. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 21527-21533	9.5	4
5	Brillouin-Mandelstam spectroscopy of standing spin waves in a ferrite waveguide. <i>AIP Advances</i> , <b>2018</b> , 8, 056017	1.5	3
4	Efficient terahertz radiation absorption by dilute graphene composites. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 063104	3.4	3
3	Low-frequency noise characteristics of GaN vertical PIN diodes Effects of design, current, and temperature. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 243505	3.4	3
2	Printed Electronic Devices with Inks of TiS Quasi-One-Dimensional van der Waals Material. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 47033-47042	9.5	3
1	Brillouin-Mandelstam spectroscopy of stress-modulated spatially confined spin waves in Ni thin films on piezoelectric substrates. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2020</b> , 501, 166440	2.8	2