

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.

54 papers	2,065 citations	26 h-index	45 g-index
59 ext. papers	2,427 ext. citations	9.2 avg, IF	4.9 L-index

#	Paper	IF	Citations
54	Flexible and Robust Thermoelectric Generators Based on All-Carbon Nanotube Yarn without Metal Electrodes. <i>ACS Nano</i> , <b>2017</b> , 11, 7608-7614	16.7	146
53	High-Performance Thermoelectric Paper Based on Double Carrier-Filtering Processes at Nanowire Heterojunctions. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1502181	21.8	128
52	Remarkable Conversion Between n- and p-Type Reduced Graphene Oxide on Varying the Thermal Annealing Temperature. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 7362-7369	9.6	119
51	Enhanced thermoelectric performance of PEDOT:PSS/PANI/CSA polymer multilayer structures. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 2806-2811	35.4	98
50	Colloidal Spherical Quantum Wells with Near-Unity Photoluminescence Quantum Yield and Suppressed Blinking. <i>ACS Nano</i> , <b>2016</b> , 10, 9297-9305	16.7	94
49	Covalent photochemical functionalization of amorphous carbon thin films for integrated real-time biosensing. <i>Langmuir</i> , <b>2006</b> , 22, 9598-605	4	90
48	Nitrogen-doped graphene nanosheets from bulk graphite using microwave irradiation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 6361-8	9.5	88
47	High-concentration boron doping of graphene nanoplatelets by simple thermal annealing and their supercapacitive properties. <i>Scientific Reports</i> , <b>2015</b> , 5, 9817	4.9	86
46	A [2,2]paracyclophane triarylamine-based hole-transporting material for high performance perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 24215-24220	13	76
45	Enhancement of electrical and thermomechanical properties of silver nanowire composites by the introduction of nonconductive nanoparticles: experiment and simulation. <i>ACS Nano</i> , <b>2013</b> , 7, 851-6	16.7	75
44	Photochemical functionalization of gallium nitride thin films with molecular and biomolecular layers. <i>Langmuir</i> , <b>2006</b> , 22, 8121-6	4	72
43	Covalent functionalization and biomolecular recognition properties of DNA-modified silicon nanowires. <i>Nanotechnology</i> , <b>2005</b> , 16, 1868-1873	3.4	67
42	High-performance compliant thermoelectric generators with magnetically self-assembled soft heat conductors for self-powered wearable electronics. <i>Nature Communications</i> , <b>2020</b> , 11, 5948	17.4	67
41	Significantly reduced thermal conductivity and enhanced thermoelectric properties of single- and bi-layer graphene nanomeshes with sub-10 nm neck-width. <i>Nano Energy</i> , <b>2017</b> , 35, 26-35	17.1	62
40	Grafting of molecular layers to oxidized gallium nitride surfaces via phosphonic acid linkages. <i>Surface Science</i> , <b>2008</b> , 602, 2382-2388	1.8	47
39	Catalytic, conductive, and transparent platinum nanofiber webs for FTO-free dye-sensitized solar cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 3176-81	9.5	45
38	Controlled oxidation level of reduced graphene oxides and its effect on thermoelectric properties. <i>Macromolecular Research</i> , <b>2014</b> , 22, 1104-1108	1.9	44

37	Effect of multiwalled carbon nanotubes on the thermoelectric properties of a bismuth telluride matrix. <i>Current Applied Physics</i> , <b>2013</b> , 13, S111-S114	2.6	39
36	Highly stretchable dielectric nanocomposites based on single-walled carbon nanotube/ionic liquid gels. <i>Composites Science and Technology</i> , <b>2013</b> , 83, 40-46	8.6	35
35	Photochemical grafting and patterning of biomolecular layers onto TiO <sub>2</sub> thin films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2009</b> , 1, 1013-22	9.5	34
34	Development of Self-Doped Conjugated Polyelectrolytes with Controlled Work Functions and Application to Hole Transport Layer Materials for High-Performance Organic Solar Cells. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1500703	4.6	34
33	Directed self-assembly of rhombic carbon nanotube nanomesh films for transparent and stretchable electrodes. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 2319-2325	7.1	33
32	Enhanced performance in capacitive force sensors using carbon nanotube/polydimethylsiloxane nanocomposites with high dielectric properties. <i>Nanoscale</i> , <b>2016</b> , 8, 5667-75	7.7	33
31	High-performance thermoelectric bracelet based on carbon nanotube ink printed directly onto a flexible cable. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 19727-19734	13	32
30	Mass Transport Control by Surface Graphene Oxide for Selective CO Production from Electrochemical CO <sub>2</sub> Reduction. <i>ACS Catalysis</i> , <b>2020</b> , 10, 3222-3231	13.1	29
29	Enhanced thermopower in flexible tellurium nanowire films doped using single-walled carbon nanotubes with a rationally designed work function. <i>Carbon</i> , <b>2015</b> , 94, 577-584	10.4	27
28	Effects of silica particles on the electrical percolation threshold and thermomechanical properties of epoxy/silver nanocomposites. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 043104	3.4	25
27	Acid-treated SWCNT/polyurethane nanoweb as a stretchable and transparent Conductor. <i>RSC Advances</i> , <b>2012</b> , 2, 10717	3.7	24
26	Artificial Trinuclear Metallopeptidase Synthesized by Cross-Linkage of a Molecular Bowl with a Polystyrene Derivative. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 7742-7749	16.4	24
25	Carbon nanotube fibers with enhanced longitudinal carrier mobility for high-performance all-carbon thermoelectric generators. <i>Nanoscale</i> , <b>2019</b> , 11, 16919-16927	7.7	23
24	Graphene oxide nanosheet wrapped white-emissive conjugated polymer nanoparticles. <i>ACS Nano</i> , <b>2014</b> , 8, 4248-56	16.7	21
23	High-Performance, Wearable Thermoelectric Generator Based on a Highly Aligned Carbon Nanotube Sheet. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 1199-1206	6.1	20
22	Highly Ordered Nanoconfinement Effect from Evaporation-Induced Self-Assembly of Block Copolymers on In Situ Polymerized PEDOT:Tos. <i>ACS Macro Letters</i> , <b>2017</b> , 6, 386-392	6.6	19
21	Effects of size and interparticle interaction of silica nanoparticles on dispersion and electrical conductivity of silver/epoxy nanocomposites. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 154307	2.5	19
20	A mechanistic study on the carrier properties of nitrogen-doped graphene derivatives using thermoelectric effect. <i>Carbon</i> , <b>2017</b> , 117, 447-453	10.4	18

19	Covalent molecular functionalization of diamond thin-film transistors. <i>Diamond and Related Materials</i> , <b>2007</b> , 16, 1608-1615	3.5	17
18	High-Performance Thermoelectric Fabric Based on a Stitched Carbon Nanotube Fiber. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 6257-6264	9.5	16
17	Stretchable Conductive Adhesives with Superior Electrical Stability as Printable Interconnects in Washable Textile Electronics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 37043-37050	9.5	15
16	Enhanced thermoelectric properties of the flexible tellurium nanowire film hybridized with single-walled carbon nanotube. <i>Synthetic Metals</i> , <b>2014</b> , 198, 340-344	3.6	15
15	Fabrication of a MoS <sub>2</sub> /Graphene Nanoribbon Heterojunction Network for Improved Thermoelectric Properties. <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1901333	4.6	14
14	Coaxial struts and microfractured structures of compressible thermoelectric foams for self-powered pressure sensors. <i>Nanoscale</i> , <b>2018</b> , 10, 18370-18377	7.7	14
13	Enhanced electromechanical performance of P(VDF-TrFE-CTFE) thin films hybridized with highly dispersed carbon blacks. <i>Composites Part B: Engineering</i> , <b>2018</b> , 152, 133-138	10	12
12	Photochemical grafting of organic alkenes to single-crystal TiO <sub>2</sub> surfaces: a mechanistic study. <i>Langmuir</i> , <b>2012</b> , 28, 12085-93	4	12
11	Benzyl viologen-assisted simultaneous exfoliation and n-doping of MoS <sub>2</sub> nanosheets via a solution process. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 5395-5401	7.1	9
10	Preparation of poly(methyl methacrylate)/clay nanocomposites using supercritical fluid process. <i>Composite Interfaces</i> , <b>2012</b> , 19, 565-572	2.3	6
9	Nanostructured Inorganic Chalcogenide-Carbon Nanotube Yarn having a High Thermoelectric Power Factor at Low Temperature. <i>ACS Nano</i> , <b>2021</b> ,	16.7	6
8	Facile preparation of epoxy nanocomposites with highly dispersed graphite nanosheets and their dielectric properties. <i>Macromolecular Research</i> , <b>2012</b> , 20, 1197-1200	1.9	5
7	Elastomeric high- $\kappa$ composites of low dielectric loss tangent: Experiment and simulation. <i>Composites Part B: Engineering</i> , <b>2020</b> , 201, 108337	10	5
6	Enhanced Output Performance of All-Solution-Processed Organic Thermoelectrics: Spray Printing and Interface Engineering. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 26250-26257	9.5	4
5	Formation of electrically conducting, transparent films using silver nanoparticles connected by carbon nanotubes. <i>Thin Solid Films</i> , <b>2014</b> , 562, 445-450	2.2	4
4	Highly Integrated, Wearable Carbon-Nanotube-Yarn-Based Thermoelectric Generators Achieved by Selective Inkjet-Printed Chemical Doping. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 200256	21.8	3
3	Monte Carlo simulation studies on the effect of entropic attraction on the electric conductivity in polymer nano-composites. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2014</b> , 14, 5103-8	1.3	2
2	Highly stretchable three-dimensional thermoelectric fabrics exploiting woven structure deformability and passivation-induced fiber elasticity. <i>Nano Energy</i> , <b>2022</b> , 97, 107143	17.1	2

- 1 Highly Selective Multiplex Quantitative Polymerase Chain Reaction with a Nanomaterial Composite Hydrogel for Precise Diagnosis of Viral Infection. *ACS Applied Materials & Interfaces*, **2021**, 13, 30295-30305<sup>95</sup>