Enzheng Shi

List of Publications by Year
in descending order

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56 papers	4,989 citations	117625 34 h-index	144013 57 g-index
57 all docs	57 docs citations	57 times ranked	8504 citing authors

#	Article	IF	Citations
1	Laminated Carbon Nanotube Networks for Metal Electrode-Free Efficient Perovskite Solar Cells. ACS Nano, 2014, 8, 6797-6804.	14.6	427
2	Two-dimensional halide perovskite nanomaterials and heterostructures. Chemical Society Reviews, 2018, 47, 6046-6072.	38.1	339
3	Graphene Reinforced Carbon Nanotube Networks for Wearable Strain Sensors. Advanced Functional Materials, 2016, 26, 2078-2084.	14.9	328
4	Colloidal Antireflection Coating Improves Grapheneâ€"Silicon Solar Cells. Nano Letters, 2013, 13, 1776-1781.	9.1	303
5	Core-Double-Shell, Carbon Nanotube@Polypyrrole@MnO₂ Sponge as Freestanding, Compressible Supercapacitor Electrode. ACS Applied Materials & Interfaces, 2014, 6, 5228-5234.	8.0	298
6	Two-dimensional halide perovskite lateral epitaxial heterostructures. Nature, 2020, 580, 614-620.	27.8	284
7	Reactive metalâ€"support interactions at moderate temperature in two-dimensional niobium-carbide-supported platinum catalysts. Nature Catalysis, 2018, 1, 349-355.	34.4	244
8	Superâ€Stretchable Springâ€Like Carbon Nanotube Ropes. Advanced Materials, 2012, 24, 2896-2900.	21.0	193
9	Two-dimensional transition metal carbides as supports for tuning the chemistry of catalytic nanoparticles. Nature Communications, 2018, 9, 5258.	12.8	188
10	Highly Stable Lead-Free Perovskite Field-Effect Transistors Incorporating Linear Ï€-Conjugated Organic Ligands. Journal of the American Chemical Society, 2019, 141, 15577-15585.	13.7	180
11	Long-range exciton transport and slow annihilation in two-dimensional hybrid perovskites. Nature Communications, 2020, 11, 664.	12.8	167
12	TiO2-Coated Carbon Nanotube-Silicon Solar Cells with Efficiency of 15%. Scientific Reports, 2012, 2, 884.	3.3	141
13	Carbon nanotube-polypyrrole core-shell sponge and its application as highly compressible supercapacitor electrode. Nano Research, 2014, 7, 209-218.	10.4	115
14	Highly deformation-tolerant carbon nanotube sponges as supercapacitor electrodes. Nanoscale, 2013, 5, 8472.	5.6	101
15	Self-stretchable, helical carbon nanotube yarn supercapacitors with stable performance under extreme deformation conditions. Nano Energy, 2015, 12, 401-409.	16.0	100
16	Overtwisted, Resolvable Carbon Nanotube Yarn Entanglement as Strain Sensors and Rotational Actuators. ACS Nano, 2013, 7, 8128-8135.	14.6	94
17	Carbon Nanotube and CdSe Nanobelt Schottky Junction Solar Cells. Nano Letters, 2010, 10, 3583-3589.	9.1	90
18	Highly Twisted Double-Helix Carbon Nanotube Yarns. ACS Nano, 2013, 7, 1446-1453.	14.6	88

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19	Layer-by-layer anionic diffusion in two-dimensional halide perovskite vertical heterostructures. Nature Nanotechnology, 2021, 16, 584-591.	31.5	88
20	Porous, Platinum Nanoparticle-Adsorbed Carbon Nanotube Yarns for Efficient Fiber Solar Cells. ACS Nano, 2012, 6, 7191-7198.	14.6	84
21	Extrinsic and Dynamic Edge States of Two-Dimensional Lead Halide Perovskites. ACS Nano, 2019, 13, 1635-1644.	14.6	79
22	Elastic improvement of carbon nanotube sponges by depositing amorphous carbon coating. Carbon, 2014, 76, 19-26.	10.3	78
23	Strong and reversible modulation of carbon nanotubeâ€“silicon heterojunction solar cells by an interfacial oxide layer. Physical Chemistry Chemical Physics, 2012, 14, 8391.	2.8	68
24	Graphene-CdSe nanobelt solar cells with tunable configurations. Nano Research, 2011, 4, 891-900.	10.4	67
25	Cotton-derived bulk and fiber aerogels grafted with nitrogen-doped graphene. Nanoscale, 2015, 7, 7550-7558.	5.6	65
26	Carbon Nanotube Network Embroidered Graphene Films for Monolithic Allâ€Carbon Electronics. Advanced Materials, 2015, 27, 682-688.	21.0	62
27	Highly Porous Coreâ€“Shell Structured Graphene-Chitosan Beads. ACS Applied Materials & Interfaces, 2015, 7, 14439-14445.	8.0	56
28	Multifunctional graphene sheetâ€“nanoribbon hybrid aerogels. Journal of Materials Chemistry A, 2014, 2, 14994-15000.	10.3	54
29	Additive manufacturing of patterned 2D semiconductor through recyclable masked growth. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 3437-3442.	7.1	46
30	Elastic carbon nanotube straight yarns embedded with helical loops. Nanoscale, 2013, 5, 2403.	5.6	44
31	Highly Crumpled All-Carbon Transistors for Brain Activity Recording. Nano Letters, 2017, 17, 71-77.	9.1	38
32	Photocatalytic, recyclable CdS nanoparticle-carbon nanotube hybrid sponges. Nano Research, 2012, 5, 265-271.	10.4	37
33	Fiber and fabric solar cells by directly weaving carbon nanotube yarns with CdSe nanowire-based electrodes. Nanoscale, 2012, 4, 4954.	5.6	36
34	Largeâ€Deformation, Multifunctional Artificial Muscles Based on Singleâ€Walled Carbon Nanotube Yarns. Advanced Engineering Materials, 2015, 17, 14-20.	3.5	36
35	A compressible mesoporous SiO2 sponge supported by a carbon nanotube network. Nanoscale, 2014, 6, 3585.	5.6	34
36	Templated synthesis of TiO2 nanotube macrostructures and their photocatalytic properties. Nano Research, 2015, 8, 900-906.	10.4	32

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37	Improvement of grapheneâ€“Si solar cells by embroidering graphene with a carbon nanotube spider-web. Nano Energy, 2015, 17, 216-223.	16.0	30
38	Carbon-Nanotube-Wrapped Spider Silks for Directed Cardiomyocyte Growth and Electrophysiological Detection. ACS Applied Materials & Interfaces, 2018, 10, 6793-6798.	8.0	26
39	Ionically interacting nanoclay and nanofibrillated cellulose lead to tough bulk nanocomposites in compression by forced self-assembly. Journal of Materials Chemistry B, 2013, 1, 835-840.	5.8	25
40	Soft-lock drawing of super-aligned carbon nanotube bundles for nanometre electrical contacts. Nature Nanotechnology, 2022, 17, 278-284.	31.5	24
41	Wire-supported CdSe nanowire array photoelectrochemical solar cells. Physical Chemistry Chemical Physics, 2012, 14, 3583.	2.8	22
42	Direct fabrication of carbon nanotube-graphene hybrid films by a blown bubble method. Nano Research, 2015, 8, 1746-1754.	10.4	21
43	CuI-Si heterojunction solar cells with carbon nanotube films as flexible top-contact electrodes. Nano Research, 2011, 4, 979-986.	10.4	20
44	Halide Perovskite Epitaxial Heterostructures. Accounts of Materials Research, 2020, 1, 213-224.	11.7	20
45	<i>Ex Vivo</i> Study of Telluride Nanowires in Minigut. Journal of Biomedical Nanotechnology, 2018, 14, 978-986.	1.1	19
46	Suspended, Straightened Carbon Nanotube Arrays by Gel Chapping. ACS Nano, 2011, 5, 5656-5661.	14.6	18
47	Comparison of Nanocarbonâ€“Silicon Solar Cells with Nanotubeâ€“Si or Grapheneâ€“Si Contact. ACS Applied Materials & Interfaces, 2015, 7, 17088-17094.	8.0	17
48	Quasi-2D halide perovskite crystals and their optoelectronic applications. Journal of Materials Chemistry A, 2022, 10, 19169-19183.	10.3	16
49	Nanobeltâ€“carbon nanotube cross-junction solar cells. Energy and Environmental Science, 2012, 5, 6119.	30.8	11
50	Solution-processed bulk heterojunction solar cells based on interpenetrating CdS nanowires and carbon nanotubes. Nano Research, 2012, 5, 595-604.	10.4	9
51	Recent progress in thermoelectric nanocomposites based on solution-synthesized nanoheterostructures. Nano Research, 2017, 10, 1498-1509.	10.4	6
52	Bubble-promoted assembly of hierarchical, porous Ag2S nanoparticle membranes. Journal of Materials Chemistry, 2012, 22, 24721.	6.7	5
53	Blown Bubble Assembly of Graphene Oxide Patches for Transparent Electrodes in Carbonâ€“Silicon Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 28330-28336.	8.0	5
54	Carbon Nanotubes: Superâ€Stretchable Springâ€Like Carbon Nanotube Ropes (Adv. Mater. 21/2012). Advanced Materials, 2012, 24, 2935-2935.	21.0	3

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55	Strain Sensing: Graphene Reinforced Carbon Nanotube Networks for Wearable Strain Sensors (Adv.) Tj ETQq1 1 0.784314 rgBT /Overlo	14.9	3
56	Experimental and Theoretical Study on Well-Tunable Metal Oxide Doping towards High- Performance Thermoelectrics. ES Energy & Environments, 2018, , .	1.1	3