

Yu Wang

List of Publications by Year in descending order

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times ranked

21278
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced Electricity Generation from Graphene Microfluidic Channels for Self-Powered Flexible Sensors. <i>Nano Letters</i> , 2022, 22, 3266-3274.	4.5	17
2	Gradient Titanium Oxide Nanowire Film: a Multifunctional Solar Energy Utilization Platform for High-Salinity Organic Sewage Treatment. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 19652-19658.	4.0	6
3	Preparation and anisotropic tribological properties of MoAlB/Al laminated composites. <i>Ceramics International</i> , 2021, 47, 5028-5037.	2.3	8
4	Preparation, microstructure and tensile properties of two dimensional MXene reinforced copper matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 803, 140699.	2.6	23
5	Microstructure and tensile properties of Ni nano particles modified MXene reinforced copper matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 808, 140932.	2.6	7
6	Highly Textured Assembly of Engineered Si Nanowires for Artificial Synapses Model. <i>ACS Applied Electronic Materials</i> , 2021, 3, 1375-1383.	2.0	1
7	Two-dimensional nanomaterials with engineered bandgap: Synthesis, properties, applications. <i>Nano Today</i> , 2021, 37, 101059.	6.2	82
8	Multiwavelength Brillouin Generation in Bismuth-Doped Fiber Laser With Single- and Double-Frequency Spacing. <i>Journal of Lightwave Technology</i> , 2020, 38, 6886-6896.	2.7	21
9	Microstructure and mechanical properties of MoAlB particles reinforced Al matrix composites by interface modification with in situ formed Al ₁₂ Mo. <i>Journal of Alloys and Compounds</i> , 2020, 823, 153813.	2.8	16
10	An Improved spectral graph partition intelligent clustering algorithm for low-power wireless networks. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2019, , 1.	3.3	1
11	Hierarchical Vertically Aligned Titanium Carbide (MXene) Array for Flexible All-Solid-State Supercapacitor with High Volumetric Capacitance. <i>ACS Applied Energy Materials</i> , 2019, 2, 6834-6840.	2.5	18
12	Tailorable Metal-Ceramic (Cu-TiC _{0.5}) Layered Electrode with High Mechanical Property and Conductivity. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 44413-44420.	4.0	1
13	Atomic Coupling Growth of Graphene on Carbon Steel for Exceptional Anti-Icing Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 17359-17367.	3.2	7
14	3D graphene aerogel wrapped 3D flower-like Fe ₃ O ₄ as a long stable and high rate anode material for lithium ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2018, 830-831, 106-115.	1.9	21
15	Certain doping concentrations caused half-metallic graphene. <i>Journal of Saudi Chemical Society</i> , 2017, 21, 111-117.	2.4	24
16	Uncoordinated Amine Groups of Metal-Organic Frameworks to Anchor Single Ru Sites as Chemoselective Catalysts toward the Hydrogenation of Quinoline. <i>Journal of the American Chemical Society</i> , 2017, 139, 9419-9422.	6.6	558
17	Selenium-Doped Black Phosphorus for High-Responsivity 2D Photodetectors. <i>Small</i> , 2016, 12, 5000-5007.	5.2	156
18	Nonlinear optical properties of multilayer graphene in the infrared. <i>Optics Express</i> , 2016, 24, 13033.	1.7	104

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19	Preface: innovative flexible energy. <i>Science China Materials</i> , 2016, 59, 409-409.	3.5	1
20	Flexible SERS active detection from novel Ag nano-necklaces as highly reproducible and ultrasensitive tips. <i>Science China Materials</i> , 2016, 59, 435-443.	3.5	9
21	Novel ALD-assisted growth of ZnO nanorods on graphene and its Cu ₂ ZnSn(S _x Se ^{1-x}) ₄ solar cell application. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 4757-4762.	1.3	9
22	The role of MoS ₂ as an interfacial layer in graphene/silicon solar cells. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 8182-8186.	1.3	59
23	Two-Photon Absorption in Graphene Enhanced by the Excitonic Fano Resonance. <i>Journal of Physical Chemistry C</i> , 2015, 119, 16954-16961.	1.5	23
24	A molecular dynamics study on thermal and mechanical properties of graphene-paraffin nanocomposites. <i>RSC Advances</i> , 2015, 5, 82638-82644.	1.7	48
25	Fluorination on polyethylenimine allows efficient 2D and 3D cell culture gene delivery. <i>Journal of Materials Chemistry B</i> , 2015, 3, 642-650.	2.9	60
26	Patterning of graphene with tunable size and shape for microelectrode array devices. <i>Carbon</i> , 2014, 67, 390-397.	5.4	24
27	Quasi-freestanding Graphene on a Single Walled Carbon Nanotube Electrode for Applications in Organic Light-emitting Diode. <i>Small</i> , 2014, 10, 944-949.	5.2	25
28	Filling the Voids of Graphene Foam with Graphene Eggshell for Improved Lithium-Ion Storage. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 9835-9841.	4.0	64
29	Length-dependent thermal conductivity in suspended single-layer graphene. <i>Nature Communications</i> , 2014, 5, 3689.	5.8	735
30	Graphene oxide as an effective interfacial layer for enhanced graphene/silicon solar cell performance. <i>Journal of Materials Chemistry C</i> , 2014, 2, 7715-7721.	2.7	62
31	Multiple Virtual Tunneling of Dirac Fermions in Granular Graphene. <i>Scientific Reports</i> , 2013, 3, 3404.	1.6	4
32	Electronic Properties of Nanodiamond Decorated Graphene. <i>ACS Nano</i> , 2012, 6, 1018-1025.	7.3	57
33	CVD Graphene as Interfacial Layer to Engineer the Organic Donor-Acceptor Heterojunction Interface Properties. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 3134-3140.	4.0	30
34	Fluorinated Graphene for Promoting Neuro-Induction of Stem Cells. <i>Advanced Materials</i> , 2012, 24, 4285-4290.	11.1	315
35	A simple, high yield method for the synthesis of organic wires from aromatic molecules using nitric acid as the solvent. <i>Chemical Communications</i> , 2011, 47, 4153.	2.2	14
36	Application of graphene in tandem organic solar cells. , 2011, , .		0

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37	Electrochemical Delamination of CVD-Grown Graphene Film: Toward the Recyclable Use of Copper Catalyst. ACS Nano, 2011, 5, 9927-9933.	7.3	529
38	Electrical measurement of non-destructively p-type doped graphene using molybdenum trioxide. Applied Physics Letters, 2011, 99, .	1.5	36
39	Flow Sensing of Single Cell by Graphene Transistor in a Microfluidic Channel. Nano Letters, 2011, 11, 5240-5246.	4.5	106
40	Origin of Enhanced Stem Cell Growth and Differentiation on Graphene and Graphene Oxide. ACS Nano, 2011, 5, 7334-7341.	7.3	953
41	Broadband graphene polarizer. Nature Photonics, 2011, 5, 411-415.	15.6	961
42	Monolayer graphene as a saturable absorber in a mode-locked laser. Nano Research, 2011, 4, 297-307.	5.8	408
43	Graphene Intermediate Layer in Tandem Organic Photovoltaic Cells. Advanced Functional Materials, 2011, 21, 4430-4435.	7.8	57
44	Interface Engineering of Layer-by-Layer Stacked Graphene Anodes for High-Performance Organic Solar Cells. Advanced Materials, 2011, 23, 1514-1518.	11.1	489
45	Chemical vapor deposition graphene as structural template to control interfacial molecular orientation of chloroaluminium phthalocyanine. Applied Physics Letters, 2011, 99, 093301.	1.5	29
46	A Bioelectronic Platform Using a Graphene-Lipid Bilayer Interface. ACS Nano, 2010, 4, 7387-7394.	7.3	132
47	Toward High Throughput Interconvertible Graphene-to-Graphene Growth and Patterning. ACS Nano, 2010, 4, 6146-6152.	7.3	109
48	Atomic-Layer Graphene as a Saturable Absorber for Ultrafast Pulsed Lasers. Advanced Functional Materials, 2009, 19, 3077-3083.	7.8	2,310
49	A Facile, Low-Cost, and Scalable Method of Selective Etching of Semiconducting Single-Walled Carbon Nanotubes by a Gas Reaction. Advanced Materials, 2009, 21, 813-816.	11.1	44
50	Minimizing purification-induced defects in single-walled carbon nanotubes gives films with improved conductivity. Nano Research, 2009, 2, 865.	5.8	13
51	Large area, continuous, few-layered graphene as anodes in organic photovoltaic devices. Applied Physics Letters, 2009, 95, .	1.5	394
52	Synthesis of N-Doped Graphene by Chemical Vapor Deposition and Its Electrical Properties. Nano Letters, 2009, 9, 1752-1758.	4.5	2,822
53	Optimizing Single-Walled Carbon Nanotube Films for Applications in Electroluminescent Devices. Advanced Materials, 2008, 20, 4442-4449.	11.1	92
54	The formation of recumbent bamboo-like carbon nanotube patterns on a patterned gold substrate by chemical vapor deposition. Carbon, 2008, 46, 255-260.	5.4	14

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55	Wet Purification of Aligned Carbon Nanotube Arrays and Its Impact on the Morphology of the Carbon Nanotube Arrays. <i>Acta Physico-chimica Sinica</i> , 2008, 24, 951-954.	0.6	4
56	Real Time and in Situ Control of the Gap Size of Nanoelectrodes for Molecular Devices. <i>Nano Letters</i> , 2008, 8, 1625-1630.	4.5	50
57	Controlled growth of single-walled carbon nanotubes at atmospheric pressure by catalytic decomposition of ethanol and an efficient purification method. <i>Journal of Materials Chemistry</i> , 2007, 17, 357-363.	6.7	22
58	Synthesis and Device Integration of Carbon Nanotube/Silica Core-Shell Nanowires. <i>Journal of Physical Chemistry C</i> , 2007, 111, 7661-7665.	1.5	19
59	A Magnetism-Assisted Chemical Vapor Deposition Method To Produce Branched or Iron-Encapsulated Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2007, 129, 7364-7368.	6.6	37
60	Generic Approach to Modulate Conductivity and Coat Discontinuous Gate Dielectrics of Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2007, 111, 8098-8104.	1.5	2
61	Direct Enrichment of Metallic Single-Walled Carbon Nanotubes Induced by the Different Molecular Composition of Monohydroxy Alcohol Homologues. <i>Small</i> , 2007, 3, 1486-1490.	5.2	48
62	A New Method to Synthesize Complicated Multibranching Carbon Nanotubes with Controlled Architecture and Composition. <i>Nano Letters</i> , 2006, 6, 186-192.	4.5	93
63	Rare earth metal complexes with triethylenetetraminehexaacetic acid. <i>Journal of Coordination Chemistry</i> , 2006, 59, 295-315.	0.8	20
64	Syntheses of rare earth metal complexes with aminopolycarboxylic acids and study on structural changes: Nine-coordinated mononuclear $K_2[Dy^{III}(dtpa)(H_2O)] \cdot 6H_2O$ and binuclear $K_4[Ho^{III}2(dtpa)_2] \cdot 4H_2O$. <i>Journal of Coordination Chemistry</i> , 2005, 58, 921-930.	0.8	14
65	Origin of Enhanced Electricity Generation on Magnéli Phase Titanium Suboxide Nanocrystal Films. <i>ACS Applied Energy Materials</i> , 0, , .	2.5	4