Huixin He

List of Publications by Year in descending order

52 papers	4,923 citations	159585 30 h-index	206112 48 g-index
55 all docs	55 docs citations	55 times ranked	7530 citing authors

#	Article	IF	Citations
1	Electrolyte design for LiF-rich solidâ€“electrolyte interfaces to enable high-performance microsized alloy anodes for batteries. Nature Energy, 2020, 5, 386-397.	39.5	621
2	A Nonoxidative Sensor Based on a Self-Doped Polyaniline/Carbon Nanotube Composite for Sensitive and Selective Detection of the Neurotransmitter Dopamine. Analytical Chemistry, 2007, 79, 2583-2587.	6.5	464
3	Polyaniline Nanowires on Si Surfaces Fabricated with DNA Templates. Journal of the American Chemical Society, 2004, 126, 7097-7101.	13.7	360
4	Surface-engineered targeted PPI dendrimer for efficient intracellular and intratumoral siRNA delivery. Journal of Controlled Release, 2009, 140, 284-293.	9.9	305
5	P-Doped Porous Carbon as Metal Free Catalysts for Selective Aerobic Oxidation with an Unexpected Mechanism. ACS Nano, 2016, 10, 2305-2315.	14.6	276
6	Internally Cationic Polyamidoamine PAMAM-OH Dendrimers for siRNA Delivery: Effect of the Degree of Quaternization and Cancer Targeting. Biomacromolecules, 2009, 10, 258-266.	5.4	202
7	A Conducting Polymer Nanojunction Switch. Journal of the American Chemical Society, 2001, 123, 7730-7731.	13.7	196
8	Surface-Modified and Internally Cationic Polyamidoamine Dendrimers for Efficient siRNA Delivery. Bioconjugate Chemistry, 2008, 19, 1396-1403.	3.6	196
9	DNA and carbon nanotubes as medicine. Advanced Drug Delivery Reviews, 2010, 62, 633-649.	13.7	180
10	Production of Graphene Sheets by Direct Dispersion with Aromatic Healing Agents. Small, 2010, 6, 1100-1107.	10.0	156
11	PEGylated Graphene Oxide-Mediated Protein Delivery for Cell Function Regulation. ACS Applied Materials & Interfaces, 2012, 4, 6317-6323.	8.0	154
12	Anti-HER2 IgY antibody-functionalized single-walled carbon nanotubes for detection and selective destruction of breast cancer cells. BMC Cancer, 2009, 9, 351.	2.6	149
13	Graphene-Catalyzed Direct Friedelâ€“Crafts Alkylation Reactions: Mechanism, Selectivity, and Synthetic Utility. Journal of the American Chemical Society, 2015, 137, 14473-14480.	13.7	147
14	Enhanced Sensitivity for Biosensors:Â Multiple Functions of DNA-Wrapped Single-Walled Carbon Nanotubes in Self-Doped Polyaniline Nanocomposites. Journal of Physical Chemistry B, 2006, 110, 16359-16365.	2.6	133
15	Microwave- and Nitronium Ion-Enabled Rapid and Direct Production of Highly Conductive Low-Oxygen Graphene. Journal of the American Chemical Society, 2012, 134, 5850-5856.	13.7	115
16	Microwave Enabled Oneâ€Pot, Oneâ€Step Fabrication and Nitrogen Doping of Holey Graphene Oxide for Catalytic Applications. Small, 2015, 11, 3358-3368.	10.0	106
17	Direct Production of Graphene Nanosheets for Near Infrared Photoacoustic Imaging. ACS Nano, 2013, 7, 8147-8157.	14.6	94
18	An Ionâ€Exchange Promoted Phase Transition in a Liâ€Excess Layered Cathode Material for Highâ€Performance Lithium Ion Batteries. Advanced Energy Materials, 2015, 5, 1401937.	19.5	82

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19	Improved Conductivity of Carbon Nanotube Networks by In Situ Polymerization of a Thin Skin of Conducting Polymer. ACS Nano, 2008, 2, 1197-1204.	14.6	81
20	A Nonoxidative Electrochemical Sensor Based on a Self-Doped Polyaniline/Carbon Nanotube Composite for Sensitive and Selective Detection of the Neurotransmitter Dopamine: A Review. Sensors, 2008, 8, 8423-8452.	3.8	70
21	Phthalocyanine-loaded graphene nanoplatform for imaging-guided combinatorial phototherapy. International Journal of Nanomedicine, 2015, 10, 2347.	6.7	68
22	In Situ Fabrication of A Water-Soluble, Self-Doped Polyaniline Nanocomposite:Â The Unique Role of DNA Functionalized Single-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2006, 128, 12064-12065.	13.7	65
23	P and S dual-doped graphitic porous carbon for aerobic oxidation reactions: Enhanced catalytic activity and catalytic sites. Carbon, 2017, 114, 383-392.	10.3	65
24	Fabrication of high performance conducting polymer nanocomposites for biosensors and flexible electronics: summary of the multiple roles of DNA dispersed and functionalized single walled carbon nanotubes. Journal of Materials Chemistry, 2009, 19, 6465.	6.7	62
25	Labile Catalytic Packaging of DNA/siRNA: Control of Gold Nanoparticles â€œoutâ€•of DNA/siRNA Complexes. ACS Nano, 2010, 4, 3679-3688.	14.6	61
26	Ï€-Plasmon absorption of carbon nanotubes for the selective and sensitive detection of Fe³⁺ ions. Chemical Science, 2016, 7, 5192-5199.	7.4	55
27	Interference of Ascorbic Acid in the Sensitive Detection of Dopamine by a Nonoxidative Sensing Approach. Journal of Physical Chemistry B, 2007, 111, 12275-12281.	2.6	47
28	Assembly of Highly Aligned DNA Strands onto Si Chips. Langmuir, 2005, 21, 4180-4184.	3.5	42
29	Combined Effect of Porosity and Surface Chemistry on the Electrochemical Reduction of Oxygen on Cellular Vitreous Carbon Foam Catalyst. ACS Catalysis, 2017, 7, 7466-7478.	11.2	42
30	The Electronic Role of DNA-Functionalized Carbon Nanotubes: Efficacy for in Situ Polymerization of Conducting Polymer Nanocomposites. Journal of the American Chemical Society, 2008, 130, 7921-7928.	13.7	36
31	Controlling the Conductance of Atomically Thin Metal Wires with Electrochemical Potential. Journal of the American Chemical Society, 2002, 124, 13568-13575.	13.7	32
32	Poly(propyleneimine) dendrimers as potential siRNA delivery nanocarrier: from structure to function. International Journal of Nanotechnology, 2011, 8, 36.	0.2	28
33	Oligodeoxynucleotide nanostructure formation in the presence of polypropyleneimine dendrimers and their uptake in breast cancer cells. Nanotechnology, 2006, 17, 5449-5460.	2.6	27
34	Synergy of oxygen and a piranha solution for eco-friendly production of highly conductive graphene dispersions. Green Chemistry, 2015, 17, 869-881.	9.0	27
35	Electrochemical properties of atomic-scale metal wires. Electrochimica Acta, 2003, 48, 3085-3091.	5.2	25
36	Dry microwave heating enables scalable fabrication of pristine holey graphene nanoplatelets and their catalysis in reductive hydrogen atom transfer reactions. Carbon, 2018, 139, 861-871.	10.3	25

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37	Selective Hydrogenation by Carbocatalyst: The Role of Radicals. Organic Letters, 2019, 21, 8164-8168.	4.6	25
38	Pd-Catalyzed Suzuki-Miyaura Cross-Coupling of Pentafluorophenyl Esters. Molecules, 2018, 23, 3134.	3.8	18
39	Graphene oxide catalyzed ketone Î±-alkylation with alkenes: enhancement of graphene oxide activity by hydrogen bonding. Chemical Communications, 2019, 55, 5379-5382.	4.1	17
40	SPM-based nanofabrication using a synchronization technique. Applied Physics A: Materials Science and Processing, 1998, 66, S715-S717.	2.3	11
41	Tuning the electronic properties of the Î³-Al₂O₃surface by phosphorus doping. Physical Chemistry Chemical Physics, 2019, 21, 15080-15088.	2.8	11
42	Highly Aligned Ribbon-Shaped Pd Nanoparticle Assemblies by Spontaneous Organization. Journal of Physical Chemistry C, 2007, 111, 7666-7670.	3.1	10
43	Microwave-Enabled Incorporation of Single Atomic Cu Catalytic Sites in Holey Graphene: Unifying Structural Requirements of a Carbon Matrix for Simultaneous Achievement of High Activity and Long-Term Durability. ACS Applied Energy Materials, 2020, 3, 8266-8275.	5.1	9
44	Structural Transformation of Li-Excess Cathode Materials via Facile Preparation and Assembly of Sonication-Induced Colloidal Nanocrystals for Enhanced Lithium Storage Performance. ACS Applied Materials & Interfaces, 2017, 9, 31181-31191.	8.0	7
45	Monitoring the Electrochemical Transformation of an Azobenzene-Terminated Alkanethiolate Monolayer at Gold by Chemical Force Microscopy. Molecular Crystals and Liquid Crystals, 1999, 337, 305-308.	0.3	6
46	Nanotechnology in Nonviral Gene Delivery. , 2005, , 251-287.		4
47	Developing High Resolution Electrical Probing System Based on Atomic Force Microscopy. Molecular Crystals and Liquid Crystals, 1997, 294, 91-94.	0.3	2
48	Moving Electrons Purposefully through Single Molecules and Nanostructures: A Tribute to the Science of Professor Nongjian Tao (1963â€“2020). ACS Nano, 2020, 14, 12291-12312.	14.6	2
49	Graphene: Microwave Enabled One-Pot, One-Step Fabrication and Nitrogen Doping of Holey Graphene Oxide for Catalytic Applications (Small 27/2015). Small, 2015, 11, 3357-3357.	10.0	1
50	Fabrication and Structural Characterization of Azobenzene Monolayer on Silver Island Films By LB and SA Techniques. Molecular Crystals and Liquid Crystals, 1998, 314, 297-302.	0.3	0
51	Conducting polymer nanocomposites: interactions at interfaces. , 2007, , .		0
52	Microwave-induced temperature fields in graphite powder heated in a waveguide reactor. , 2014, , .		0