

Kai Sun

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36
papers

4,038
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h-index

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36
ext. papers

4,317
ext. citations

10.6
avg, IF

5.39
L-index

#	Paper	IF	Citations
36	Solution-based evolution and enhanced methanol oxidation activity of monodisperse platinum-copper nanocubes. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 4217-21	16.4	349
35	3D honeycomb-like structured graphene and its high efficiency as a counter-electrode catalyst for dye-sensitized solar cells. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 9210-4	16.4	308
34	Light-controlled self-assembly of semiconductor nanoparticles into twisted ribbons. <i>Science</i> , 2010 , 327, 1355-9	33.3	303
33	PdNi electrocatalysts for efficient ethanol oxidation reaction in alkaline electrolyte. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 12686-12697	6.7	258
32	Solvent-Annealed Crystalline Squaraine: PC70BM (1:6) Solar Cells. <i>Advanced Energy Materials</i> , 2011 , 1, 184-187	21.8	242
31	Memristive Behavior and Ideal Memristor of 1T Phase MoS ₂ Nanosheets. <i>Nano Letters</i> , 2016 , 16, 572-6	11.5	236
30	Silver/dendrimer nanocomposites as biomarkers: fabrication, characterization, in vitro toxicity, and intracellular detection. <i>Nano Letters</i> , 2005 , 5, 2123-30	11.5	221
29	Similar topological origin of chiral centers in organic and nanoscale inorganic structures: effect of stabilizer chirality on optical isomerism and growth of CdTe nanocrystals. <i>Journal of the American Chemical Society</i> , 2010 , 132, 6006-13	16.4	218
28	Inhibition of amyloid peptide fibrillation by inorganic nanoparticles: functional similarities with proteins. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 5110-5	16.4	213
27	Self-assembly of synthetic hydroxyapatite nanorods into an enamel prism-like structure. <i>Journal of Colloid and Interface Science</i> , 2005 , 288, 97-103	9.3	175
26	Efficient, ordered bulk heterojunction nanocrystalline solar cells by annealing of ultrathin squaraine thin films. <i>Nano Letters</i> , 2010 , 10, 3555-9	11.5	126
25	Spontaneous Formation of Functionalized Dendrimer-Stabilized Gold Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2009 , 112, 8251-8258	3.8	105
24	Universal Synthesis of Single-Phase Pyrite FeS ₂ Nanoparticles, Nanowires, and Nanosheets. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 2567-2573	3.8	103
23	An efficient counter electrode material for dye-sensitized solar cells: flower-structured 1T metallic phase MoS ₂ . <i>Journal of Materials Chemistry A</i> , 2016 , 4, 12398-12401	13	101
22	Functionalized squaraine donors for nanocrystalline organic photovoltaics. <i>ACS Nano</i> , 2012 , 6, 972-8	16.7	101
21	Preparation and Characterization of PdFe Nanoleaves as Electrocatalysts for Oxygen Reduction Reaction. <i>Chemistry of Materials</i> , 2011 , 23, 1570-1577	9.6	94
20	Synthesis of Fluorapatite Nanorods and Nanowires by Direct Precipitation from Solution. <i>Crystal Growth and Design</i> , 2006 , 6, 1504-1508	3.5	91

19	Biomimetic Hierarchical Assembly of Helical Supraparticles from Chiral Nanoparticles. <i>ACS Nano</i> , 2016 , 10, 3248-56	16.7	86
18	Terminal supraparticle assemblies from similarly charged protein molecules and nanoparticles. <i>Nature Communications</i> , 2014 , 5, 3593	17.4	81
17	Arylamine-based squaraine donors for use in organic solar cells. <i>Nano Letters</i> , 2011 , 11, 4261-4	11.5	80
16	Synthesis of 3D cauliflower-fungus-like graphene from CO ₂ as a highly efficient counter electrode material for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 16842-16846	13	73
15	Shape-Control of ZnTe Nanocrystal Growth in Organic Solution. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 5454-5458	3.8	73
14	3D flower-structured graphene from CO ₂ for supercapacitors with ultrahigh areal capacitance at high current density. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 10183-10187	13	67
13	Synthesis, characterization, and manipulation of dendrimer-stabilized iron sulfide nanoparticles. <i>Nanotechnology</i> , 2006 , 17, 4554-4560	3.4	56
12	Direct conversion of CO ₂ to 3D graphene and its excellent performance for dye-sensitized solar cells with 10% efficiency. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 12054-12057	13	47
11	Mechanically-induced reverse phase transformation of MoS ₂ from stable 2H to metastable 1T and its memristive behavior. <i>RSC Advances</i> , 2016 , 6, 65691-65697	3.7	46
10	The Bright Future for Electrode Materials of Energy Devices: Highly Conductive Porous Na-Embedded Carbon. <i>Nano Letters</i> , 2016 , 16, 8029-8033	11.5	40
9	Pt ₃ Co concave nanocubes: synthesis, formation understanding, and enhanced catalytic activity toward hydrogenation of styrene. <i>Chemistry - A European Journal</i> , 2014 , 20, 1753-9	4.8	33
8	Dendrimer-mediated synthesis and shape evolution of gold/silver alloy nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012 , 405, 22-29	5.1	26
7	Hydroxylated Dendrimer-Stabilized Gold and Silver Nanoparticles: Spontaneous Formation, Characterization, and Surface Properties. <i>Current Nanoscience</i> , 2010 , 6, 307-314	1.4	24
6	Reversible nanoparticle gels with colour switching. <i>Journal of Materials Chemistry</i> , 2011 , 21, 11639		22
5	Excellent performance of highly conductive porous Na-embedded carbon nanowalls for electric double-layer capacitors with a wide operating temperature range. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9090-9096	13	17
4	High-Indexed Pt ₃ Fe Nanocatalysts and Their Enhanced Catalytic Performance in Dual Organic Reactions. <i>ChemNanoMat</i> , 2015 , 1, 331-337	3.5	11
3	Streptavidin Inhibits Self-Assembly of CdTe Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 3249-3256	6.4	6
2	Optical anisotropy and sign reversal in layer-by-layer assembled films from chiral nanoparticles. <i>Faraday Discussions</i> , 2016 , 191, 141-157	3.6	6

- 1 Precursor Investigation in the Synthesis of PtPb Nanocatalysts. *Materials Research Society Symposia Proceedings*, **2013**, 1491, 40