Xiaohua Liu

List of Publications by Year
in descending order

29 papers	2,470 citations	304743 22 h-index	434195 31 g-index
32 all docs	32 docs citations	32 times ranked	3674 citing authors

#	Article	IF	Citations
1	Point Defect Engineering of Highâ€Performance Bismuthâ€Tellurideâ€Based Thermoelectric Materials. Advanced Functional Materials, 2014, 24, 5211-5218.	14.9	619
2	Low Electron Scattering Potentials in High Performance Mg₂Si_{0.45}Sn_{0.55} Based Thermoelectric Solid Solutions with Band Convergence. Advanced Energy Materials, 2013, 3, 1238-1244.	19.5	220
3	Si/TiSi₂ Heteronanostructures as High-Capacity Anode Material for Li Ion Batteries. Nano Letters, 2010, 10, 860-863.	9.1	195
4	TiO₂/TiSi₂ Heterostructures for High-Efficiency Photoelectrochemical H₂O Splitting. Journal of the American Chemical Society, 2009, 131, 2772-2773.	13.7	193
5	High Performance Mg₂(Si,Sn) Solid Solutions: a Point Defect Chemistry Approach to Enhancing Thermoelectric Properties. Advanced Functional Materials, 2014, 24, 3776-3781.	14.9	141
6	Size Effect on the Crystal Structure of Silver Nanowires. Nano Letters, 2006, 6, 408-412.	9.1	127
7	In Situ Atomicâ€Scale Imaging of Phase Boundary Migration in FePO₄ Microparticles During Electrochemical Lithiation. Advanced Materials, 2013, 25, 5461-5466.	21.0	119
8	Enhancement in thermoelectric performance of bismuth telluride based alloys by multi-scale microstructural effects. Journal of Materials Chemistry, 2012, 22, 16484.	6.7	110
9	Synthesis of Nano/Micro Zinc Oxide Rods and Arrays by Thermal Evaporation Approach on Cylindrical Shape Substrate. Journal of Physical Chemistry B, 2005, 109, 13091-13093.	2.6	79
10	High performance n-type bismuth telluride based alloys for mid-temperature power generation. Journal of Materials Chemistry C, 2015, 3, 10597-10603.	5.5	64
11	Synthesis and Photoelectrochemical Study of Vertically Aligned Silicon Nanowire Arrays. Angewandte Chemie - International Edition, 2009, 48, 9680-9684.	13.8	62
12	Spontaneous Growth of Highly Conductive Twoâ€Dimensional Singleâ€Crystalline TiSi₂ Nanonets. Angewandte Chemie - International Edition, 2008, 47, 7681-7684.	13.8	58
13	Functional Faceted Silver Nano-Hexapods: Synthesis, Structure Characterizations, and Optical Properties. Chemistry of Materials, 2008, 20, 192-197.	6.7	54
14	Capping Modes in PVP-Directed Silver Nanocrystal Growth: Multi-Twinned Nanorods versus Single-Crystalline Nano-Hexapods. Crystal Growth and Design, 2008, 8, 1916-1923.	3.0	53
15	Kinetically-induced hexagonality in chemically grown silicon nanowires. Nano Research, 2009, 2, 575-582.	10.4	46
16	Nano-porous anodic aluminium oxide membranes with 6â€“19 nm pore diameters formed by a low-potential anodizing process. Nanotechnology, 2007, 18, 345302.	2.6	44
17	Negative differential resistance and resistive switching behaviors in Cu2S nanowire devices. Applied Physics Letters, 2010, 96, .	3.3	41
18	Understanding Ionic Vacancy Diffusion Growth of Cuprous Sulfide Nanowires. Angewandte Chemie - International Edition, 2010, 49, 3165-3168.	13.8	39

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19	Rational Synthesis and Structural Characterizations of Complex TiSi2 Nanostructures. Chemistry of Materials, 2009, 21, 1023-1027.	6.7	38
20	In situelectrical measurements of polytypic silver nanowires. Nanotechnology, 2008, 19, 085711.	2.6	36
21	Complex Nanostructures: Synthesis and Energetic Applications. Energies, 2010, 3, 285-300.	3.1	31
22	Five-fold Twinned Nanorods of FCC Fe: Synthesis and Characterization. Crystal Growth and Design, 2008, 8, 4340-4342.	3.0	18
23	Microstructure and thermoelectric properties of InSb compound with nonsoluble NiSb in situ precipitates. Journal of Materials Research, 2013, 28, 3394-3400.	2.6	16
24	Preparation of temperature-sensitive polymer films by surface photografting techniques. Polymers for Advanced Technologies, 2002, 13, 239-241.	3.2	7
25	Contribution of radial dopant concentration to the thermoelectric properties of core-shell nanowires. Applied Physics Letters, 2013, 102, 103101.	3.3	7
26	A novel polyurethane-modified poly(N-isopropylacrylamide) hydrogels. Polymers for Advanced Technologies, 2002, 13, 242-246.	3.2	6
27	Gold Catalyzed Nickel Disilicide Formation: A New Solidâ€“Liquidâ€“Solid Phase Growth Mechanism. Nano Letters, 2013, 13, 6009-6015.	9.1	6
28	Influence of precursor feeding rate on vaporâ€“liquidâ€“solid nanowire growth. Applied Physics A: Materials Science and Processing, 2009, 96, 399-402.	2.3	2
29	Size dependence in one-dimensional nano-materials and one-dimensional heterojunctions. Materials Research Society Symposia Proceedings, 2006, 931, 1.	0.1	0