Fudong Wang

List of Publications by Year
in descending order

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41 papers	3,080 citations	201575 27 h-index	254106 43 g-index
46 all docs	46 docs citations	46 times ranked	4076 citing authors

#	Article	IF	Citations
1	Kinetics and Mechanisms of Aggregative Nanocrystal Growth. Chemistry of Materials, 2014, 26, 5-21.	3.2	447
2	Solutionâ^'Liquidâ^'Solid Growth of Semiconductor Nanowires. Inorganic Chemistry, 2006, 45, 7511-7521.	1.9	321
3	Lamellar Assembly of Cadmium Selenide Nanoclusters into Quantum Belts. Journal of the American Chemical Society, 2011, 133, 17005-17013.	6.6	196
4	The Trouble with TOPO; Identification of Adventitious Impurities Beneficial to the Growth of Cadmium Selenide Quantum Dots, Rods, and Wires. Nano Letters, 2008, 8, 3521-3524.	4.5	166
5	Solutionâ€"Liquidâ€"Solid Synthesis, Properties, and Applications of One-Dimensional Colloidal Semiconductor Nanorods and Nanowires. Chemical Reviews, 2016, 116, 10888-10933.	23.0	153
6	Size- and Shape-Controlled Synthesis of Bismuth Nanoparticles. Chemistry of Materials, 2008, 20, 3656-3662.	3.2	150
7	Spectroscopic Identification of Tri-n-octylphosphine Oxide (TOPO) Impurities and Elucidation of Their Roles in Cadmium Selenide Quantum-Wire Growth. Journal of the American Chemical Society, 2009, 131, 4983-4994.	6.6	140
8	Isolation of the Magicâ€Size CdSe Nanoclusters [(CdSe)₁₃(nâ€octylamine)₁₃] and [(CdSe)₁₃(oleylamine)₁₃]. Angewandte Chemie - International Edition, 2012, 51, 6154-6157.	7.2	129
9	Solutionâ^'Liquidâ^'Solid (SLS) Growth of ZnSeâ^'ZnTe Quantum Wires having Axial Heterojunctions. Nano Letters, 2007, 7, 1308-1313.	4.5	128
10	The Magic-Size Nanocluster (CdSe)₃₄ as a Low-Temperature Nucleant for Cadmium Selenide Nanocrystals; Room-Temperature Growth of Crystalline Quantum Platelets. Chemistry of Materials, 2014, 26, 2233-2243.	3.2	128
11	Two-Dimensional Semiconductor Nanocrystals: Properties, Templated Formation, and Magic-Size Nanocluster Intermediates. Accounts of Chemical Research, 2015, 48, 13-21.	7.6	109
12	Role of Molecular Surface Passivation in Electrical Transport Properties of InAs Nanowires. Nano Letters, 2008, 8, 49-55.	4.5	107
13	Influence of the Nanoscale Kirkendall Effect on the Morphology of Copper Indium Disulfide Nanoplatelets Synthesized by Ion Exchange. ACS Nano, 2015, 9, 7419-7428.	7.3	100
14	An Easy Shortcut Synthesis of Sizeâ€Controlled Bismuth Nanoparticles and Their Use in the SLS Growth of Highâ€Quality Colloidal Cadmium Selenide Quantum Wires. Small, 2010, 6, 573-581.	5.2	89
15	Morphology Control of Cadmium Selenide Nanocrystals: Insights into the Roles of Di-n-octylphosphine Oxide (DOPO) and Di-n-octylphosphinic Acid (DOPA). Journal of the American Chemical Society, 2012, 134, 5369-5380.	6.6	68
16	Large Exciton Energy Shifts by Reversible Surface Exchange in 2D IIâ€"VI Nanocrystals. Journal of the American Chemical Society, 2015, 137, 15198-15208.	6.6	64
17	Spectroscopic Properties of Colloidal Indium Phosphide Quantum Wires. Journal of the American Chemical Society, 2007, 129, 14327-14335.	6.6	60
18	The Scaling of the Effective Band Gaps in Indiumâ^'Arsenide Quantum Dots and Wires. ACS Nano, 2008, 2, 1903-1913.	7.3	60

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19	Colloidal GaAs Quantum Wires: Solutionâ^'Liquidâ^'Solid Synthesis and Quantum-Confinement Studies. Journal of the American Chemical Society, 2008, 130, 5954-5961.	6.6	57
20	Determination of the Rodâ^'Wire Transition Length in Colloidal Indium Phosphide Quantum Rods. Journal of the American Chemical Society, 2007, 129, 14381-14387.	6.6	56
21	Nanoscale Colocalization of Fluorogenic Probes Reveals the Role of Oxygen Vacancies in the Photocatalytic Activity of Tungsten Oxide Nanowires. ACS Catalysis, 2020, 10, 2088-2099.	5.5	44
22	Properties and Structures of Flours and Starches from Whole, Broken, and Yellowed Rice Kernels in a Model Study. Cereal Chemistry, 2002, 79, 383-386.	1.1	33
23	Crystal-Phase Control by Solutionâ€"Solidâ€"Solid Growth of IIâ€"VI Quantum Wires. Nano Letters, 2016, 16, 889-894.	4.5	32
24	Bright Coreâ€"Shell Semiconductor Quantum Wires. Journal of the American Chemical Society, 2012, 134, 18797-18803.	6.6	31
25	Ambipolar conduction in transistors using solution grown InAs nanowires with Cd doping. Applied Physics Letters, 2007, 90, 062108.	1.5	30
26	Solutionâ€"Liquidâ€"Solid Growth of Semiconductor Quantum-Wire Films. ACS Nano, 2011, 5, 5188-5194.	7.3	28
27	Ternary Alloyed ZnSe_xTe_{1â€"x} Nanowires: Solution-Phase Synthesis and Band Gap Bowing. Chemistry of Materials, 2015, 27, 1140-1146.	3.2	27
28	Spectroscopic Properties of Phase-Pure and Polytypic Colloidal Semiconductor Quantum Wires. ACS Nano, 2016, 10, 9745-9754.	7.3	15
29	Tellurium Precursor for Nanocrystal Synthesis: Tris(dimethylamino)phosphine Telluride. ACS Nano, 2018, 12, 12393-12400.	7.3	15
30	Bound 1D Excitons in Single CdSe Quantum Wires. Journal of Physical Chemistry Letters, 2012, 3, 2627-2632.	2.1	14
31	Role of Precursor-Conversion Chemistry in the Crystal-Phase Control of Catalytically Grown Colloidal Semiconductor Quantum Wires. ACS Nano, 2017, 11, 12526-12535.	7.3	14
32	Excitation Energy Dependence of Photoluminescence Quantum Yields in Semiconductor Nanomaterials with Varying Dimensionalities. Journal of Physical Chemistry Letters, 2020, 11, 3249-3256.	2.1	14
33	Exciton Splitting in Thin Copper Indium Disulfide Nanosheets. Chemistry of Materials, 2017, 29, 3686-3693.	3.2	9
34	Cadmium Bis(phenyldithiocarbamate) as a Nanocrystal Shell-Growth Precursor. Inorganic Chemistry, 2017, 56, 12920-12929.	1.9	9
35	Reactivity of Magic-Size Nanoclusters (CdSe)₁₃ and (CdTe)₁₃ with Acids: Rapid, Low-Temperature Formation of Flat Colloidal Nanocrystals. Chemistry of Materials, 2020, 32, 8350-8360.	3.2	8
36	Crystal-Phase Control of Catalytically Grown Colloidal CdTe Quantum Wires: Dual Role of n-Tetradecylphosphonic Acid. Chemistry of Materials, 2018, 30, 1316-1323.	3.2	5

#	Article	IF	Citations
37	Long-Lived 1D Excitons in Bright CdTe Quantum Wires. Journal of Physical Chemistry C, 2019, 123, 3144-3151.	1.5	5
38	Intraband Relaxation Dynamics of Charge Carriers within CdTe Quantum Wires. Journal of Physical Chemistry Letters, 2020, 11, 4901-4910.	2.1	3
39	Unique Growth Pathway in Solutionâ€“Solidâ€“Solid Nanowires: Cubic to Hexagonal Phase Transformation. ACS Omega, 2020, 5, 18441-18448.	1.6	1
40	InAs Nanowire Transistors Using Solution-Grown Nanowires with Acceptor Doping. , 2006, , .		0
41	InAs Nanowire Transistors Using Solution-Grown Nanowires with Acceptor Doping. , 0, , .		0