

Fudong Wang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8576412/publications.pdf>

Version: 2024-02-01

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	Nanoscale Colocalization of Fluorogenic Probes Reveals the Role of Oxygen Vacancies in the Photocatalytic Activity of Tungsten Oxide Nanowires. <i>ACS Catalysis</i> , 2020, 10, 2088-2099.	5.5	44
2	Reactivity of Magic-Size Nanoclusters (CdSe) ₁₃ and (CdTe) ₁₃ with Acids: Rapid, Low-Temperature Formation of Flat Colloidal Nanocrystals. <i>Chemistry of Materials</i> , 2020, 32, 8350-8360.	3.2	8
3	Unique Growth Pathway in Solution-“Solid” Solid Nanowires: Cubic to Hexagonal Phase Transformation. <i>ACS Omega</i> , 2020, 5, 18441-18448.	1.6	1
4	Intraband Relaxation Dynamics of Charge Carriers within CdTe Quantum Wires. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4901-4910.	2.1	3
5	Excitation Energy Dependence of Photoluminescence Quantum Yields in Semiconductor Nanomaterials with Varying Dimensionalities. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3249-3256.	2.1	14
6	Long-Lived 1D Excitons in Bright CdTe Quantum Wires. <i>Journal of Physical Chemistry C</i> , 2019, 123, 3144-3151.	1.5	5
7	Crystal-Phase Control of Catalytically Grown Colloidal CdTe Quantum Wires: Dual Role of <i>n</i> -Tetradecylphosphonic Acid. <i>Chemistry of Materials</i> , 2018, 30, 1316-1323.	3.2	5
8	Tellurium Precursor for Nanocrystal Synthesis: Tris(dimethylamino)phosphine Telluride. <i>ACS Nano</i> , 2018, 12, 12393-12400.	7.3	15
9	Exciton Splitting in Thin Copper Indium Disulfide Nanosheets. <i>Chemistry of Materials</i> , 2017, 29, 3686-3693.	3.2	9
10	Cadmium Bis(phenyldithiocarbamate) as a Nanocrystal Shell-Growth Precursor. <i>Inorganic Chemistry</i> , 2017, 56, 12920-12929.	1.9	9
11	Role of Precursor-Conversion Chemistry in the Crystal-Phase Control of Catalytically Grown Colloidal Semiconductor Quantum Wires. <i>ACS Nano</i> , 2017, 11, 12526-12535.	7.3	14
12	Spectroscopic Properties of Phase-Pure and Polytypic Colloidal Semiconductor Quantum Wires. <i>ACS Nano</i> , 2016, 10, 9745-9754.	7.3	15
13	Solution-“Liquid” Solid Synthesis, Properties, and Applications of One-Dimensional Colloidal Semiconductor Nanorods and Nanowires. <i>Chemical Reviews</i> , 2016, 116, 10888-10933.	23.0	153
14	Crystal-Phase Control by Solution-“Solid” Solid Growth of II-VI Quantum Wires. <i>Nano Letters</i> , 2016, 16, 889-894.	4.5	32
15	Ternary Alloyed ZnSe _x Te _{1-x} Nanowires: Solution-Phase Synthesis and Band Gap Bowing. <i>Chemistry of Materials</i> , 2015, 27, 1140-1146.	3.2	27
16	Influence of the Nanoscale Kirkendall Effect on the Morphology of Copper Indium Disulfide Nanoplatelets Synthesized by Ion Exchange. <i>ACS Nano</i> , 2015, 9, 7419-7428.	7.3	100
17	Large Exciton Energy Shifts by Reversible Surface Exchange in 2D II-VI Nanocrystals. <i>Journal of the American Chemical Society</i> , 2015, 137, 15198-15208.	6.6	64
18	Two-Dimensional Semiconductor Nanocrystals: Properties, Templated Formation, and Magic-Size Nanocluster Intermediates. <i>Accounts of Chemical Research</i> , 2015, 48, 13-21.	7.6	109

#	ARTICLE	IF	CITATIONS
19	Kinetics and Mechanisms of Aggregative Nanocrystal Growth. <i>Chemistry of Materials</i> , 2014, 26, 5-21.	3.2	447
20	The Magic-Size Nanocluster (CdSe) ₃₄ as a Low-Temperature Nucleant for Cadmium Selenide Nanocrystals; Room-Temperature Growth of Crystalline Quantum Platelets. <i>Chemistry of Materials</i> , 2014, 26, 2233-2243.	3.2	128
21	Bright Core-Shell Semiconductor Quantum Wires. <i>Journal of the American Chemical Society</i> , 2012, 134, 18797-18803.	6.6	31
22	Morphology Control of Cadmium Selenide Nanocrystals: Insights into the Roles of Di-n-octylphosphine Oxide (DOPO) and Di-n-octylphosphinic Acid (DOPA). <i>Journal of the American Chemical Society</i> , 2012, 134, 5369-5380.	6.6	68
23	Bound 1D Excitons in Single CdSe Quantum Wires. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2627-2632.	2.1	14
24	Isolation of the Magic-Size CdSe Nanoclusters [(CdSe) ₁₃ (n-octylamine) ₁₃] and [(CdSe) ₁₃ (oleylamine) ₁₃]. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6154-6157.	7.2	129
25	Solution-Liquid-Solid Growth of Semiconductor Quantum-Wire Films. <i>ACS Nano</i> , 2011, 5, 5188-5194.	7.3	28
26	Lamellar Assembly of Cadmium Selenide Nanoclusters into Quantum Belts. <i>Journal of the American Chemical Society</i> , 2011, 133, 17005-17013.	6.6	196
27	An Easy Shortcut Synthesis of Size-Controlled Bismuth Nanoparticles and Their Use in the SLS Growth of High-Quality Colloidal Cadmium Selenide Quantum Wires. <i>Small</i> , 2010, 6, 573-581.	5.2	89
28	Spectroscopic Identification of Tri-n-octylphosphine Oxide (TOPO) Impurities and Elucidation of Their Roles in Cadmium Selenide Quantum-Wire Growth. <i>Journal of the American Chemical Society</i> , 2009, 131, 4983-4994.	6.6	140
29	The Scaling of the Effective Band Gaps in Indium-Arsenide Quantum Dots and Wires. <i>ACS Nano</i> , 2008, 2, 1903-1913.	7.3	60
30	Size- and Shape-Controlled Synthesis of Bismuth Nanoparticles. <i>Chemistry of Materials</i> , 2008, 20, 3656-3662.	3.2	150
31	The Trouble with TOPO; Identification of Adventitious Impurities Beneficial to the Growth of Cadmium Selenide Quantum Dots, Rods, and Wires. <i>Nano Letters</i> , 2008, 8, 3521-3524.	4.5	166
32	Role of Molecular Surface Passivation in Electrical Transport Properties of InAs Nanowires. <i>Nano Letters</i> , 2008, 8, 49-55.	4.5	107
33	Colloidal GaAs Quantum Wires: Solution-Liquid-Solid Synthesis and Quantum-Confinement Studies. <i>Journal of the American Chemical Society</i> , 2008, 130, 5954-5961.	6.6	57
34	Ambipolar conduction in transistors using solution grown InAs nanowires with Cd doping. <i>Applied Physics Letters</i> , 2007, 90, 062108.	1.5	30
35	Spectroscopic Properties of Colloidal Indium Phosphide Quantum Wires. <i>Journal of the American Chemical Society</i> , 2007, 129, 14327-14335.	6.6	60
36	Solution-Liquid-Solid (SLS) Growth of ZnSe-ZnTe Quantum Wires having Axial Heterojunctions. <i>Nano Letters</i> , 2007, 7, 1308-1313.	4.5	128

#	ARTICLE	IF	CITATIONS
37	Determination of the Rod-to-Wire Transition Length in Colloidal Indium Phosphide Quantum Rods. <i>Journal of the American Chemical Society</i> , 2007, 129, 14381-14387.	6.6	56
38	InAs Nanowire Transistors Using Solution-Grown Nanowires with Acceptor Doping. , 2006, , .		0
39	Solution-to-Liquid-to-Solid Growth of Semiconductor Nanowires. <i>Inorganic Chemistry</i> , 2006, 45, 7511-7521.	1.9	321
40	Properties and Structures of Flours and Starches from Whole, Broken, and Yellowed Rice Kernels in a Model Study. <i>Cereal Chemistry</i> , 2002, 79, 383-386.	1.1	33
41	InAs Nanowire Transistors Using Solution-Grown Nanowires with Acceptor Doping. , 0, , .		0