

YinThai Chan

List of Publications by Year in descending order

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61
papers

2,716
citations

201674

27
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182427

51
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64
all docs

64
docs citations

64
times ranked

3897
citing authors

#	ARTICLE	IF	CITATIONS
1	A Low-Threshold, High-Efficiency Microfluidic Waveguide Laser. <i>Journal of the American Chemical Society</i> , 2005, 127, 8952-8953.	13.7	297
2	Incorporation of Luminescent Nanocrystals into Monodisperse Core-Shell Silica Microspheres. <i>Advanced Materials</i> , 2004, 16, 2092-2097.	21.0	215
3	Whispering-Gallery-Mode Lasing from a Semiconductor Nanocrystal/Microsphere Resonator Composite. <i>Advanced Materials</i> , 2005, 17, 1131-1136.	21.0	186
4	Blue semiconductor nanocrystal laser. <i>Applied Physics Letters</i> , 2005, 86, 073102.	3.3	154
5	Ultralow-Threshold Two-Photon Pumped Amplified Spontaneous Emission and Lasing from Seeded CdSe/CdS Nanorod Heterostructures. <i>ACS Nano</i> , 2012, 6, 10835-10844.	14.6	124
6	Transient photoluminescence and simultaneous amplified spontaneous emission from multiexciton states in CdSe quantum dots. <i>Physical Review B</i> , 2004, 70, .	3.2	114
7	Ultralow-threshold multiphoton-pumped lasing from colloidal nanoplatelets in solution. <i>Nature Communications</i> , 2015, 6, 8513.	12.8	108
8	Stable, Ultralow Threshold Amplified Spontaneous Emission from CsPbBr ₃ Nanoparticles Exhibiting Trion Gain. <i>Nano Letters</i> , 2018, 18, 4976-4984.	9.1	103
9	pH-Responsive Quantum Dots via an Albumin Polymer Surface Coating. <i>Journal of the American Chemical Society</i> , 2010, 132, 5012-5014.	13.7	94
10	Asymmetric Dumbbells from Selective Deposition of Metals on Seeded Semiconductor Nanorods. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 2888-2892.	13.8	88
11	Light-Induced Selective Deposition of Metals on Gold-Tipped CdSe-Seeded CdS Nanorods. <i>Journal of the American Chemical Society</i> , 2011, 133, 672-675.	13.7	87
12	Multiexciton fluorescence from semiconductor nanocrystals. <i>Chemical Physics</i> , 2005, 318, 71-81.	1.9	78
13	Soft-Lithographically Embossed, Multilayered Distributed-Feedback Nanocrystal Lasers. <i>Advanced Materials</i> , 2004, 16, 2137-2141.	21.0	73
14	Multiexcitonic two-state lasing in a CdSe nanocrystal laser. <i>Applied Physics Letters</i> , 2004, 85, 2460-2462.	3.3	72
15	High-Performance Hybrid Solar Cell Made from CdSe/CdTe Nanocrystals Supported on Reduced Graphene Oxide and PCDTBT. <i>Advanced Functional Materials</i> , 2014, 24, 1904-1910.	14.9	56
16	Dual Wavelength Electroluminescence from CdSe/CdS Tetrapods. <i>ACS Nano</i> , 2014, 8, 2873-2879.	14.6	56
17	Unusual Selectivity of Metal Deposition on Tapered Semiconductor Nanostructures. <i>Chemistry of Materials</i> , 2012, 24, 2040-2046.	6.7	52
18	A Solvent-Stable Nanocrystal-Silica Composite Laser. <i>Journal of the American Chemical Society</i> , 2006, 128, 3146-3147.	13.7	45

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19	Three-Photon Absorption in Seeded CdSe/CdS Nanorod Heterostructures. <i>Journal of Physical Chemistry C</i> , 2011, 115, 17711-17716.	3.1	43
20	Sub-Picosecond Auger-Mediated Hole-Trapping Dynamics in Colloidal CdSe/CdS Core/Shell Nanoplatelets. <i>ACS Nano</i> , 2016, 10, 9370-9378.	14.6	43
21	Aqueous-Phase Reactions on Hollow Silica-Encapsulated Semiconductor Nanoheterostructures. <i>Journal of the American Chemical Society</i> , 2012, 134, 8754-8757.	13.7	37
22	Low Threshold, Amplified Spontaneous Emission from Core-Seed Semiconductor Nanotetrapods Incorporated into a Sol-Gel Matrix. <i>Advanced Materials</i> , 2012, 24, OP159-64.	21.0	37
23	Continuous Shape Tuning of Nanotetrapods: Toward Shape-Mediated Self-Assembly. <i>Chemistry of Materials</i> , 2016, 28, 1187-1195.	6.7	36
24	Enhanced tunability of the multiphoton absorption cross-section in seeded CdSe/CdS nanorod heterostructures. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	35
25	Promoting 2D Growth in Colloidal Transition Metal Sulfide Semiconductor Nanostructures via Halide Ions. <i>Chemistry of Materials</i> , 2014, 26, 6120-6126.	6.7	32
26	Understanding the features in the ultrafast transient absorption spectra of CdSe quantum dots. <i>Chemical Physics</i> , 2016, 481, 157-164.	1.9	32
27	Solution-Processed 2D PbS Nanoplates with Residual Cu ₂ S Exhibiting Low Resistivity and High Infrared Responsivity. <i>Chemistry of Materials</i> , 2016, 28, 9132-9138.	6.7	29
28	Observation of an Excitonic Quantum Coherence in CdSe Nanocrystals. <i>Nano Letters</i> , 2015, 15, 6875-6882.	9.1	28
29	Delayed Exciton Formation Involving Energetically Shallow Trap States in Colloidal CsPbBr ₃ Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2017, 121, 28498-28505.	3.1	26
30	Engineering Fluorescence in Au-Tipped, CdSe-Seed CdS Nanoheterostructures. <i>Small</i> , 2011, 7, 2847-2852.	10.0	24
31	Formation of Hollow Iron Oxide Tetrapods via a Shape-Preserving Nanoscale Kirkendall Effect. <i>Small</i> , 2014, 10, 667-673.	10.0	22
32	Efficient Color-Tunable Multiexcitonic Dual Wavelength Emission from Type II Semiconductor Tetrapods. <i>ACS Nano</i> , 2014, 8, 9349-9357.	14.6	22
33	Non-linear transduction strategies for chemo/biosensing on small length scales. <i>Journal of Materials Chemistry</i> , 2005, 15, 2697.	6.7	20
34	Dual n-type doped reduced graphene oxide field effect transistors controlled by semiconductor nanocrystals. <i>Chemical Communications</i> , 2012, 48, 4052.	4.1	19
35	Multifunctional Semiconductor Nanoheterostructures via Site-Selective Silica Encapsulation. <i>Small</i> , 2013, 9, 1908-1915.	10.0	18
36	Solution-based green amplified spontaneous emission from colloidal perovskite nanocrystals exhibiting high stability. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	18

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37	Pump-Power Dependence of Coherent Acoustic Phonon Frequencies in Colloidal CdSe/CdS Core/Shell Nanoplatelets. <i>Nano Letters</i> , 2017, 17, 3312-3319.	9.1	17
38	Multi-color lasing in chemically open droplet cavities. <i>Scientific Reports</i> , 2018, 8, 14088.	3.3	14
39	Thermochromism from Ultrathin Colloidal Sb ₂ Se ₃ Nanowires Undergoing Reversible Growth and Dissolution in an Amine-Thiol Mixture. <i>Advanced Materials</i> , 2019, 31, e1806164.	21.0	14
40	Semiconductor nanocrystals in sol-gel derived matrices. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 13694.	2.8	12
41	Facet to Facet Linking of Shape Anisotropic Inorganic Nanocrystals with Site Specific and Stoichiometric Control. <i>Nano Letters</i> , 2016, 16, 6431-6436.	9.1	12
42	Embedding liquid lasers within or around aqueous microfluidic droplets. <i>Lab on A Chip</i> , 2018, 18, 197-205.	6.0	12
43	Synthesis and Characterization of Dually Labeled Pickering-Type Stabilized Polymer Nanoparticles in a Downscaled Miniemulsion System. <i>Langmuir</i> , 2012, 28, 9347-9354.	3.5	11
44	Branched Heterostructured Semiconductor Nanocrystals with Various Branch Orders via a Facet-to-Facet Linking Process. <i>ACS Nano</i> , 2020, 14, 10337-10345.	14.6	10
45	Subwavelength Plasmonic Color Tuning of Quantum Dot Emission. <i>ACS Photonics</i> , 2019, 6, 93-98.	6.6	9
46	Immobilisation of quantum dots by bio-orthogonal PCR amplification and labelling for direct gene detection and quantitation. <i>Chemical Communications</i> , 2012, 48, 5467.	4.1	8
47	Measuring the Ultrafast Spectral Diffusion Dynamics of Colloidal CdSe Nanomaterials. <i>MRS Advances</i> , 2019, 4, 1-7.	0.9	7
48	Pulsed Laser Photopatterning of Cesium Lead Halide Perovskite Structures as Robust Solution-Processed Optical Gain Media. <i>Advanced Materials Technologies</i> , 2020, 5, 2000104.	5.8	7
49	Tuning the Emission Colors of Self-Assembled Quantum Dot Monolayers via One-Step Heat Treatment for Display Applications. <i>ACS Applied Nano Materials</i> , 2020, 3, 3214-3222.	5.0	7
50	2D-Oriented Attachment of 1D Colloidal Semiconductor Nanocrystals via an Etchant. <i>Nano Letters</i> , 2022, 22, 942-947.	9.1	7
51	Gene Detection in Complex Biological Media Using Semiconductor Nanorods within an Integrated Microfluidic Device. <i>Analytical Chemistry</i> , 2015, 87, 10292-10298.	6.5	6
52	Wet-Chemically Synthesized Colloidal Semiconductor Nanostructures as Optical Gain Media. <i>ChemPhysChem</i> , 2016, 17, 582-597.	2.1	5
53	Highly fluorescent, monolithic semiconductor nanorod clusters for ultrasensitive biodetection. <i>Chemical Communications</i> , 2018, 54, 11352-11355.	4.1	4
54	How to make microscale pores on a self-assembled Ag nanoparticle monolayer. <i>Colloids and Interface Science Communications</i> , 2019, 30, 100175.	4.1	4

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55	Layer Number-Dependent Enhanced Photoluminescence from a Quantum Dot Metamaterial Optical Resonator. ACS Applied Electronic Materials, 2021, 3, 468-475.	4.3	4
56	Hierarchical Multicomponent Nanoheterostructures via Facet-to-Facet Attachment of Anisotropic Semiconductor Nanoparticles. Chemistry of Materials, 2017, 29, 9075-9083.	6.7	3
57	Fluorescent Semiconductor Nanorods for the Solid-Phase Polymerase Chain Reaction-Based, Multiplexed Gene Detection of <i>Mycobacterium tuberculosis</i> . ACS Applied Materials & Interfaces, 2021, 13, 35294-35305.	8.0	3
58	HETEROSTRUCTURED HYBRID COLLOIDAL SEMICONDUCTOR NANOCRYSTALS. Cosmos, 2010, 06, 235-245.	0.4	0
59	Tunable multi-photon absorption cross-sections using seeded CdSe/CdS nanorod heterostructures. , 2011, , .		0
60	Tunable Giant Multi-Photon Absorption using Seeded CdSe/CdS Nanorod Heterostructures. , 2012, , .		0
61	Facet-to-facet Linking of Shape-anisotropic Colloidal Cadmium Chalcogenide Nanostructures. Journal of Visualized Experiments, 2017, , .	0.3	0