

YinThai Chan

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6449525/publications.pdf>

Version: 2024-02-01

61
papers

2,716
citations

201674

27
h-index

182427

51
g-index

64
all docs

64
docs citations

64
times ranked

3897
citing authors

#	ARTICLE	IF	CITATIONS
1	2D-Oriented Attachment of 1D Colloidal Semiconductor Nanocrystals via an Etchant. <i>Nano Letters</i> , 2022, 22, 942-947.	9.1	7
2	Layer Number-Dependent Enhanced Photoluminescence from a Quantum Dot Metamaterial Optical Resonator. <i>ACS Applied Electronic Materials</i> , 2021, 3, 468-475.	4.3	4
3	Fluorescent Semiconductor Nanorods for the Solid-Phase Polymerase Chain Reaction-Based, Multiplexed Gene Detection of <i>Mycobacterium tuberculosis</i> . <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 35294-35305.	8.0	3
4	Branched Heterostructured Semiconductor Nanocrystals with Various Branch Orders <i>via</i> a Facet-to-Facet Linking Process. <i>ACS Nano</i> , 2020, 14, 10337-10345.	14.6	10
5	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
6	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
7	Measuring the Ultrafast Spectral Diffusion Dynamics of Colloidal CdSe Nanomaterials. <i>MRS Advances</i> , 2019, 4, 1-7.	0.9	7
8	Solution-based green amplified spontaneous emission from colloidal perovskite nanocrystals exhibiting high stability. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	18
9	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
10	Subwavelength Plasmonic Color Tuning of Quantum Dot Emission. <i>ACS Photonics</i> , 2019, 6, 93-98.	6.6	9
11	Thermochromism from Ultrathin Colloidal Sb_2Se_3 Nanowires Undergoing Reversible Growth and Dissolution in an Amine-Thiol Mixture. <i>Advanced Materials</i> , 2019, 31, e1806164.	21.0	14
12	Embedding liquid lasers within or around aqueous microfluidic droplets. <i>Lab on A Chip</i> , 2018, 18, 197-205.	6.0	12
13	Multi-color lasing in chemically open droplet cavities. <i>Scientific Reports</i> , 2018, 8, 14088.	3.3	14
14	Highly fluorescent, monolithic semiconductor nanorod clusters for ultrasensitive biodetection. <i>Chemical Communications</i> , 2018, 54, 11352-11355.	4.1	4
15	Stable, Ultralow Threshold Amplified Spontaneous Emission from $CsPbBr_3$ Nanoparticles Exhibiting Trion Gain. <i>Nano Letters</i> , 2018, 18, 4976-4984.	9.1	103
16	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
17	Hierarchical Multicomponent Nanoheterostructures via Facet-to-Facet Attachment of Anisotropic Semiconductor Nanoparticles. <i>Chemistry of Materials</i> , 2017, 29, 9075-9083.	6.7	3
18	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

#	ARTICLE	IF	CITATIONS
19	Facet-to-facet Linking of Shape-anisotropic Colloidal Cadmium Chalcogenide Nanostructures. Journal of Visualized Experiments, 2017, , .	0.3	0
20	Solution-Processed 2D PbS Nanoplates with Residual Cu ₂ S Exhibiting Low Resistivity and High Infrared Responsivity. Chemistry of Materials, 2016, 28, 9132-9138.	6.7	29
21	Facet to Facet Linking of Shape Anisotropic Inorganic Nanocrystals with Site Specific and Stoichiometric Control. Nano Letters, 2016, 16, 6431-6436.	9.1	12
22	Understanding the features in the ultrafast transient absorption spectra of CdSe quantum dots. Chemical Physics, 2016, 481, 157-164.	1.9	32
23	Sub-Picosecond Auger-Mediated Hole-Trapping Dynamics in Colloidal CdSe/CdS Core/Shell Nanoplatelets. ACS Nano, 2016, 10, 9370-9378.	14.6	43
24	Wet-Chemically Synthesized Colloidal Semiconductor Nanostructures as Optical Gain Media. ChemPhysChem, 2016, 17, 582-597.	2.1	5
25	Continuous Shape Tuning of Nanotetrapods: Toward Shape-Mediated Self-Assembly. Chemistry of Materials, 2016, 28, 1187-1195.	6.7	36
26	Ultralow-threshold multiphoton-pumped lasing from colloidal nanoplatelets in solution. Nature Communications, 2015, 6, 8513.	12.8	108
27	Gene Detection in Complex Biological Media Using Semiconductor Nanorods within an Integrated Microfluidic Device. Analytical Chemistry, 2015, 87, 10292-10298.	6.5	6
28	Observation of an Excitonic Quantum Coherence in CdSe Nanocrystals. Nano Letters, 2015, 15, 6875-6882.	9.1	28
29	High-Performance Hybrid Solar Cell Made from CdSe/CdTe Nanocrystals Supported on Reduced Graphene Oxide and PCDTBT. Advanced Functional Materials, 2014, 24, 1904-1910.	14.9	56
30	Formation of Hollow Iron Oxide Tetrapods via a Shape-Preserving Nanoscale Kirkendall Effect. Small, 2014, 10, 667-673.	10.0	22
31	Dual Wavelength Electroluminescence from CdSe/CdS Tetrapods. ACS Nano, 2014, 8, 2873-2879.	14.6	56
32	Promoting 2D Growth in Colloidal Transition Metal Sulfide Semiconductor Nanostructures via Halide Ions. Chemistry of Materials, 2014, 26, 6120-6126.	6.7	32
33	Efficient Color-Tunable Multiexcitonic Dual Wavelength Emission from Type II Semiconductor Tetrapods. ACS Nano, 2014, 8, 9349-9357.	14.6	22
34	Semiconductor nanocrystals in sol-gel derived matrices. Physical Chemistry Chemical Physics, 2013, 15, 13694.	2.8	12
35	Multifunctional Semiconductor Nanoheterostructures via Site-Selective Silica Encapsulation. Small, 2013, 9, 1908-1915.	10.0	18
36	Tunable Giant Multi-Photon Absorption using Seeded CdSe/CdS Nanorod Heterostructures. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
37	Ultralow-Threshold Two-Photon Pumped Amplified Spontaneous Emission and Lasing from Seeded CdSe/CdS Nanorod Heterostructures. ACS Nano, 2012, 6, 10835-10844.	14.6	124
38	Synthesis and Characterization of Dually Labeled Pickering-Type Stabilized Polymer Nanoparticles in a Downscaled Miniemulsion System. Langmuir, 2012, 28, 9347-9354.	3.5	11
39	Dual n-type doped reduced graphene oxide field effect transistors controlled by semiconductor nanocrystals. Chemical Communications, 2012, 48, 4052.	4.1	19
40	Aqueous-Phase Reactions on Hollow Silica-Encapsulated Semiconductor Nanoheterostructures. Journal of the American Chemical Society, 2012, 134, 8754-8757.	13.7	37
41	Immobilisation of quantum dots by bio-orthogonal PCR amplification and labelling for direct gene detection and quantitation. Chemical Communications, 2012, 48, 5467.	4.1	8
42	Unusual Selectivity of Metal Deposition on Tapered Semiconductor Nanostructures. Chemistry of Materials, 2012, 24, 2040-2046.	6.7	52
43	Low Threshold, Amplified Spontaneous Emission from Core-Seed Semiconductor Nanotetrapods Incorporated into a Sol-Gel Matrix. Advanced Materials, 2012, 24, OP159-64.	21.0	37
44	Light-Induced Selective Deposition of Metals on Gold-Tipped CdSe-Seeded CdS Nanorods. Journal of the American Chemical Society, 2011, 133, 672-675.	13.7	87
45	Three-Photon Absorption in Seeded CdSe/CdS Nanorod Heterostructures. Journal of Physical Chemistry C, 2011, 115, 17711-17716.	3.1	43
46	Engineering Fluorescence in Au-Tipped, CdSe-Seeded CdS Nanoheterostructures. Small, 2011, 7, 2847-2852.	10.0	24
47	Tunable multi-photon absorption cross-sections using seeded CdSe/CdS nanorod heterostructures. , 2011, , .		0
48	Asymmetric Dumbbells from Selective Deposition of Metals on Seeded Semiconductor Nanorods. Angewandte Chemie - International Edition, 2010, 49, 2888-2892.	13.8	88
49	HETEROSTRUCTURED HYBRID COLLOIDAL SEMICONDUCTOR NANOCRYSTALS. Cosmos, 2010, 06, 235-245.	0.4	0
50	Enhanced tunability of the multiphoton absorption cross-section in seeded CdSe/CdS nanorod heterostructures. Applied Physics Letters, 2010, 97, .	3.3	35
51	pH-Responsive Quantum Dots via an Albumin Polymer Surface Coating. Journal of the American Chemical Society, 2010, 132, 5012-5014.	13.7	94
52	A Solvent-Stable Nanocrystal-Silica Composite Laser. Journal of the American Chemical Society, 2006, 128, 3146-3147.	13.7	45
53	Multiexciton fluorescence from semiconductor nanocrystals. Chemical Physics, 2005, 318, 71-81.	1.9	78
54	Whispering-Gallery-Mode Lasing from a Semiconductor Nanocrystal/Microsphere Resonator Composite. Advanced Materials, 2005, 17, 1131-1136.	21.0	186

#	ARTICLE	IF	CITATIONS
55	Non-linear transduction strategies for chemo/biosensing on small length scales. Journal of Materials Chemistry, 2005, 15, 2697.	6.7	20
56	A Low-Threshold, High-Efficiency Microfluidic Waveguide Laser. Journal of the American Chemical Society, 2005, 127, 8952-8953.	13.7	297
57	Blue semiconductor nanocrystal laser. Applied Physics Letters, 2005, 86, 073102.	3.3	154
58	Soft-Lithographically Embossed, Multilayered Distributed-Feedback Nanocrystal Lasers. Advanced Materials, 2004, 16, 2137-2141.	21.0	73
59	Incorporation of Luminescent Nanocrystals into Monodisperse Core-Shell Silica Microspheres. Advanced Materials, 2004, 16, 2092-2097.	21.0	215
60	Transient photoluminescence and simultaneous amplified spontaneous emission from multiexciton states in CdSe quantum dots. Physical Review B, 2004, 70, .	3.2	114
61	Multiexcitonic two-state lasing in a CdSe nanocrystal laser. Applied Physics Letters, 2004, 85, 2460-2462.	3.3	72