

YinThai Chan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

58
papers

2,305
citations

25
h-index

47
g-index

64
ext. papers

2,559
ext. citations

10
avg, IF

4.67
L-index

#	Paper	IF	Citations
58	Fluorescent Semiconductor Nanorods for the Solid-Phase Polymerase Chain Reaction-Based, Multiplexed Gene Detection of. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 35294-35305	9.5	0
57	Layer Number-Dependent Enhanced Photoluminescence from a Quantum Dot Metamaterial Optical Resonator. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 468-475	4	0
56	Pulsed Laser Photopatterning of Cesium Lead Halide Perovskite Structures as Robust Solution-Processed Optical Gain Media. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000104	6.8	2
55	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	5.6	2
54	Branched Heterostructured Semiconductor Nanocrystals with Various Branch Orders a Facet-to-Facet Linking Process. <i>ACS Nano</i> , 2020 , 14, 10337-10345	16.7	3
53	Measuring the Ultrafast Spectral Diffusion Dynamics of Colloidal CdSe Nanomaterials. <i>MRS Advances</i> , 2019 , 4, 1-7	0.7	3
52	Solution-based green amplified spontaneous emission from colloidal perovskite nanocrystals exhibiting high stability. <i>Applied Physics Letters</i> , 2019 , 114, 183101	3.4	13
51	How to make microscale pores on a self-assembled Ag nanoparticle monolayer. <i>Colloids and Interface Science Communications</i> , 2019 , 30, 100175	5.4	4
50	Subwavelength Plasmonic Color Tuning of Quantum Dot Emission. <i>ACS Photonics</i> , 2019 , 6, 93-98	6.3	6
49	Thermochromism from Ultrathin Colloidal Sb Se Nanowires Undergoing Reversible Growth and Dissolution in an Amine-Thiol Mixture. <i>Advanced Materials</i> , 2019 , 31, e1806164	24	8
48	Stable, Ultralow Threshold Amplified Spontaneous Emission from CsPbBr Nanoparticles Exhibiting Trion Gain. <i>Nano Letters</i> , 2018 , 18, 4976-4984	11.5	78
47	Multi-color lasing in chemically open droplet cavities. <i>Scientific Reports</i> , 2018 , 8, 14088	4.9	9
46	Highly fluorescent, monolithic semiconductor nanorod clusters for ultrasensitive biodetection. <i>Chemical Communications</i> , 2018 , 54, 11352-11355	5.8	3
45	Pump-Power Dependence of Coherent Acoustic Phonon Frequencies in Colloidal CdSe/CdS Core/Shell Nanoplatelets. <i>Nano Letters</i> , 2017 , 17, 3312-3319	11.5	14
44	Hierarchical Multicomponent Nanoheterostructures via Facet-to-Facet Attachment of Anisotropic Semiconductor Nanoparticles. <i>Chemistry of Materials</i> , 2017 , 29, 9075-9083	9.6	3
43	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	3.8	22
42	Embedding liquid lasers within or around aqueous microfluidic droplets. <i>Lab on A Chip</i> , 2017 , 18, 197-205	7.2	10

41	Sub-Picosecond Auger-Mediated Hole-Trapping Dynamics in Colloidal CdSe/CdS Core/Shell Nanoplatelets. <i>ACS Nano</i> , 2016 , 10, 9370-9378	16.7	35
40	Wet-Chemically Synthesized Colloidal Semiconductor Nanostructures as Optical Gain Media. <i>ChemPhysChem</i> , 2016 , 17, 582-97	3.2	5
39	Continuous Shape Tuning of Nanotetrapods: Toward Shape-Mediated Self-Assembly. <i>Chemistry of Materials</i> , 2016 , 28, 1187-1195	9.6	30
38	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	9.6	23
37	Facet to Facet Linking of Shape Anisotropic Inorganic Nanocrystals with Site Specific and Stoichiometric Control. <i>Nano Letters</i> , 2016 , 16, 6431-6436	11.5	10
36	Understanding the features in the ultrafast transient absorption spectra of CdSe quantum dots. <i>Chemical Physics</i> , 2016 , 481, 157-164	2.3	24
35	Ultralow-threshold multiphoton-pumped lasing from colloidal nanoplatelets in solution. <i>Nature Communications</i> , 2015 , 6, 8513	17.4	84
34	Gene Detection in Complex Biological Media Using Semiconductor Nanorods within an Integrated Microfluidic Device. <i>Analytical Chemistry</i> , 2015 , 87, 10292-8	7.8	4
33	Observation of an Excitonic Quantum Coherence in CdSe Nanocrystals. <i>Nano Letters</i> , 2015 , 15, 6875-82	11.5	24
32	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	15.6	47
31	Formation of hollow iron oxide tetrapods via a shape-preserving nanoscale Kirkendall effect. <i>Small</i> , 2014 , 10, 667-73	11	20
30	Dual wavelength electroluminescence from CdSe/CdS tetrapods. <i>ACS Nano</i> , 2014 , 8, 2873-9	16.7	49
29	Promoting 2D Growth in Colloidal Transition Metal Sulfide Semiconductor Nanostructures via Halide Ions. <i>Chemistry of Materials</i> , 2014 , 26, 6120-6126	9.6	28
28	Efficient color-tunable multiexcitonic dual wavelength emission from Type II semiconductor tetrapods. <i>ACS Nano</i> , 2014 , 8, 9349-57	16.7	19
27	Semiconductor nanocrystals in sol-gel derived matrices. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 13694-704	3.6	6
26	Multifunctional semiconductor nanoheterostructures via site-selective silica encapsulation. <i>Small</i> , 2013 , 9, 1908-15	11	14
25	Ultralow-threshold two-photon pumped amplified spontaneous emission and lasing from seeded CdSe/CdS nanorod heterostructures. <i>ACS Nano</i> , 2012 , 6, 10835-44	16.7	105
24	Synthesis and characterization of dually labeled Pickering-type stabilized polymer nanoparticles in a downscaled miniemulsion system. <i>Langmuir</i> , 2012 , 28, 9347-54	4	10

23	Dual n-type doped reduced graphene oxide field effect transistors controlled by semiconductor nanocrystals. <i>Chemical Communications</i> , 2012 , 48, 4052-4	5.8	16
22	Aqueous-phase reactions on hollow silica-encapsulated semiconductor nanoheterostructures. <i>Journal of the American Chemical Society</i> , 2012 , 134, 8754-7	16.4	34
21	Immobilisation of quantum dots by bio-orthogonal PCR amplification and labelling for direct gene detection and quantitation. <i>Chemical Communications</i> , 2012 , 48, 5467-9	5.8	8
20	Unusual Selectivity of Metal Deposition on Tapered Semiconductor Nanostructures. <i>Chemistry of Materials</i> , 2012 , 24, 2040-2046	9.6	46
19	Low threshold, amplified spontaneous emission from core-seeded semiconductor nanotetrapods incorporated into a sol-gel matrix. <i>Advanced Materials</i> , 2012 , 24, OP159-64	24	32
18	Engineering fluorescence in Au-tipped, CdSe-seeded CdS nanoheterostructures. <i>Small</i> , 2011 , 7, 2847-52	11	22
17	Light-induced selective deposition of metals on gold-tipped CdSe-seeded CdS nanorods. <i>Journal of the American Chemical Society</i> , 2011 , 133, 672-5	16.4	85
16	Three-Photon Absorption in Seeded CdSe/CdS Nanorod Heterostructures. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 17711-17716	3.8	39
15	HETEROSTRUCTURED HYBRID COLLOIDAL SEMICONDUCTOR NANOCRYSTALS. <i>Cosmos</i> , 2010 , 06, 235-245		
14	Enhanced tunability of the multiphoton absorption cross-section in seeded CdSe/CdS nanorod heterostructures. <i>Applied Physics Letters</i> , 2010 , 97, 061112	3.4	29
13	pH-Responsive quantum dots via an albumin polymer surface coating. <i>Journal of the American Chemical Society</i> , 2010 , 132, 5012-4	16.4	91
12	Asymmetric Dumbbells from Selective Deposition of Metals on Seeded Semiconductor Nanorods. <i>Angewandte Chemie</i> , 2010 , 122, 2950-2954	3.6	15
11	Asymmetric dumbbells from selective deposition of metals on seeded semiconductor nanorods. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 2888-92	16.4	84
10	A solvent-stable nanocrystal-silica composite laser. <i>Journal of the American Chemical Society</i> , 2006 , 128, 3146-7	16.4	43
9	Whispering-Gallery-Mode Lasing from a Semiconductor Nanocrystal/Microsphere Resonator Composite. <i>Advanced Materials</i> , 2005 , 17, 1131-1136	24	160
8	Non-linear transduction strategies for chemo/biosensing on small length scales. <i>Journal of Materials Chemistry</i> , 2005 , 15, 2697		19
7	A low-threshold, high-efficiency microfluidic waveguide laser. <i>Journal of the American Chemical Society</i> , 2005 , 127, 8952-3	16.4	207
6	Blue semiconductor nanocrystal laser. <i>Applied Physics Letters</i> , 2005 , 86, 073102	3.4	139

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| 5 | Multiexciton fluorescence from semiconductor nanocrystals. <i>Chemical Physics</i> , 2005 , 318, 71-81 | 2.3 | 67 |
| 4 | Soft-Lithographically Embossed, Multilayered Distributed-Feedback Nanocrystal Lasers. <i>Advanced Materials</i> , 2004 , 16, 2137-2141 | 24 | 70 |
| 3 | Incorporation of Luminescent Nanocrystals into Monodisperse Core-Shell Silica Microspheres. <i>Advanced Materials</i> , 2004 , 16, 2092-2097 | 24 | 208 |
| 2 | Transient photoluminescence and simultaneous amplified spontaneous emission from multiexciton states in CdSe quantum dots. <i>Physical Review B</i> , 2004 , 70, | 3.3 | 106 |
| 1 | Multiexcitonic two-state lasing in a CdSe nanocrystal laser. <i>Applied Physics Letters</i> , 2004 , 85, 2460-2462 | 3.4 | 68 |