

Kui Yu

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.

88

papers

3,015

citations

35

h-index

53

g-index

95

ext. papers

3,343

ext. citations

8.3

avg, IF

5.15

L-index

#	Paper	IF	Citations
88	A Two-Pathway Model for the Evolution of Colloidal Compound Semiconductor Quantum Dots and Magic-Size Clusters.. <i>Advanced Materials</i> , 2022 , e2107940	24	4
87	The precursor compound of two types of ZnSe magic-sized clusters. <i>Nano Research</i> , 2022 , 15, 465	10	4
86	Transformation Pathway from CdSe Nanoplatelets with Absorption Doublets at 373/393 nm to Nanoplatelets at 434/460 nm.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 3983-3989	6.4	2
85	Absorption Features of CdTe Nanoclusters: Aspect Ratio Dependency of the Singlet/Doublet from First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 25660-25669	3.8	1
84	Transformation Pathways in Colloidal CdTeSe Magic-Size Clusters. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	3
83	Reversible Transformations at Room Temperature among Three Types of CdTe Magic-Size Clusters. <i>Inorganic Chemistry</i> , 2021 , 60, 4243-4251	5.1	11
82	Evolution of Photoluminescent CdS Magic-Size Clusters Assisted by Adding Small Molecules with Carboxylic Group. <i>ACS Omega</i> , 2021 , 6, 14458-14466	3.9	1
81	Evolution of Two Types of ZnTe Magic-Size Clusters Displaying Sharp Doublets in Optical Absorption. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 4762-4768	6.4	1
80	Transformation Pathway from CdSe Magic-Size Clusters with Absorption Doublets at 373/393 nm to Clusters at 434/460 nm. <i>Angewandte Chemie</i> , 2021 , 133, 20521-20528	3.6	0
79	Transformation Pathway from CdSe Magic-Size Clusters with Absorption Doublets at 373/393 nm to Clusters at 434/460 nm. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 20358-20365	16.4	8
78	Innenrücktitelbild: Transformation Pathway from CdSe Magic-Size Clusters with Absorption Doublets at 373/393 nm to Clusters at 434/460 nm (Angew. Chem. 37/2021). <i>Angewandte Chemie</i> , 2021 , 133, 20731-20731	3.6	
77	Effect of One-Coordinated Atoms on the Electronic and Optical Properties of ZnSe Clusters. <i>ACS Omega</i> , 2021 , 6, 18711-18718	3.9	0
76	Transformations Among Colloidal Semiconductor Magic-Size Clusters. <i>Accounts of Chemical Research</i> , 2021 , 54, 776-786	24.3	16
75	DFT study for the absorption spectra evolution of CdS magic-size clusters. <i>Chemical Physics Letters</i> , 2021 , 779, 138870	2.5	2
74	Ophthalmic Drops with Nanoparticles Derived from a Natural Product for Treating Age-Related Macular Degeneration. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 57710-57720	9.5	2
73	Fragmentation of Magic-Size Cluster Precursor Compounds into Ultrasmall CdS Quantum Dots with Enhanced Particle Yield at Low Temperatures. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 12013-12021	16.4	20
72	Fragmentation of Magic-Size Cluster Precursor Compounds into Ultrasmall CdS Quantum Dots with Enhanced Particle Yield at Low Temperatures. <i>Angewandte Chemie</i> , 2020 , 132, 12111-12119	3.6	8

71	Unveiling the Two-Step Formation Pathway of Cs ₄ PbBr ₆ Nanocrystals. <i>Chemistry of Materials</i> , 2020 , 32, 4574-4583	9.6	10
70	Room-Temperature Formation Pathway for CdTeSe Alloy Magic-Size Clusters. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 16943-16952	16.4	15
69	Room-Temperature Formation Pathway for CdTeSe Alloy Magic-Size Clusters. <i>Angewandte Chemie</i> , 2020 , 132, 17091-17100	3.6	3
68	Evolution of CdTe Magic-Size Clusters with Single Absorption Doublet Assisted by Adding Small Molecules during Prenucleation. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 2230-2240	6.4	15
67	The Future of Colloidal Semiconductor Magic-Size Clusters. <i>ACS Nano</i> , 2020 , 14, 1227-1235	16.7	42
66	In situ SAXS probing the evolution of the precursors and onset of nucleation of ZnSe colloidal semiconductor quantum dots. <i>Chemical Communications</i> , 2020 , 56, 2031-2034	5.8	6
65	Transformation of ZnS Precursor Compounds to Magic-Size Clusters Exhibiting Optical Absorption Peaking at 269 nm. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 75-82	6.4	20
64	Role of Alcohol in the Synthesis of CdS Quantum Dots. <i>Chemistry of Materials</i> , 2020 , 32, 1430-1438	9.6	9
63	Innentitelbild: Room-Temperature Formation Pathway for CdTeSe Alloy Magic-Size Clusters (Angew. Chem. 39/2020). <i>Angewandte Chemie</i> , 2020 , 132, 16950-16950	3.6	
62	Analysis of the atomic structure of CdS magic-size clusters by X-ray absorption spectroscopy. <i>Nanoscale</i> , 2020 , 12, 19325-19332	7.7	0
61	Room-temperature formation of CdS magic-size clusters in aqueous solutions assisted by primary amines. <i>Nature Communications</i> , 2020 , 11, 4199	17.4	10
60	Photoluminescent Colloidal Nanohelices Self-Assembled from CdSe Magic-Size Clusters via Nanoplatelets. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 2794-2801	6.4	19
59	One-Step Approach to Single-Ensemble CdS Magic-Size Clusters with Enhanced Production Yields. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 2725-2732	6.4	22
58	Formation of colloidal alloy semiconductor CdTeSe magic-size clusters at room temperature. <i>Nature Communications</i> , 2019 , 10, 1674	17.4	36
57	CdS magic-size clusters exhibiting one sharp ultraviolet absorption singlet peaking at 361 nm. <i>Nano Research</i> , 2019 , 12, 1437-1444	10	6
56	Energetics of Nonradiative Surface Trap States in Nanoparticles Monitored by Time-of-Flight Photoconduction Measurements on Nanoparticle-Polymer Blends. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 37184-37192	9.5	1
55	Four Types of CdTe Magic-Size Clusters from One Prenucleation Stage Sample at Room Temperature. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 4345-4353	6.4	29
54	Identifying Clusters and/or Small-Size Quantum Dots in Colloidal CdSe Ensembles with Optical Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 6399-6408	6.4	4

53	X-ray total scattering study of magic-size clusters and quantum dots of cadmium sulphide. <i>Nanoscale</i> , 2019 , 11, 21900-21908	7.7	9
52	Structures of CdSe and CdS Nanoclusters from Ab Initio Random Structure Searching. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 29370-29378	3.8	13
51	Colloidal CdSe 0-Dimension Nanocrystals and Their Self-Assembled 2-Dimension Structures. <i>Chemistry of Materials</i> , 2018 , 30, 1575-1584	9.6	28
50	Individual Pathways in the Formation of Magic-Size Clusters and Conventional Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 3660-3666	6.4	43
49	Antitumor Effect by Hydroxyapatite Nanospheres: Activation of Mitochondria-Dependent Apoptosis and Negative Regulation of Phosphatidylinositol-3-Kinase/Protein Kinase B Pathway. <i>ACS Nano</i> , 2018 , 12, 7838-7854	16.7	50
48	Precursor Self-Assembly Identified as a General Pathway for Colloidal Semiconductor Magic-Size Clusters. <i>Advanced Science</i> , 2018 , 5, 1800632	13.6	38
47	Effect of Small Molecule Additives in the Prenucleation Stage of Semiconductor CdSe Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 6356-6363	6.4	20
46	Evolution of Two Types of CdTe Magic-Size Clusters from a Single Induction Period Sample. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 5288-5295	6.4	33
45	Interpreting the Ultraviolet Absorption in the Spectrum of 415 nm-Bandgap CdSe Magic-Size Clusters. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 2818-2824	6.4	40
44	Thermally-induced reversible structural isomerization in colloidal semiconductor CdS magic-size clusters. <i>Nature Communications</i> , 2018 , 9, 2499	17.4	60
43	Two-Step Nucleation of CdS Magic-Size Nanocluster MSCB11. <i>Chemistry of Materials</i> , 2017 , 29, 5727-5735	6	49
42	Probing intermediates of the induction period prior to nucleation and growth of semiconductor quantum dots. <i>Nature Communications</i> , 2017 , 8, 15467	17.4	60
41	General low-temperature reaction pathway from precursors to monomers before nucleation of compound semiconductor nanocrystals. <i>Nature Communications</i> , 2016 , 7, 12223	17.4	35
40	Insights into the Mechanistic Role of Diphenylphosphine Selenide, Diphenylphosphine, and Primary Amines in the Formation of CdSe Monomers. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 918-31	2.8	6
39	Bright Gradient-Alloyed CdSexS1-x Quantum Dots Exhibiting Cyan-Blue Emission. <i>Chemistry of Materials</i> , 2016 , 28, 618-625	9.6	40
38	pH- and Temperature-Sensitive Hydrogel Nanoparticles with Dual Photoluminescence for Bioprobes. <i>ACS Nano</i> , 2016 , 10, 5856-63	16.7	156
37	Mechanistic study of the role of primary amines in precursor conversions to semiconductor nanocrystals at low temperature. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 6898-904	16.4	23
36	Mechanistic Study of the Role of Primary Amines in Precursor Conversions to Semiconductor Nanocrystals at Low Temperature. <i>Angewandte Chemie</i> , 2014 , 126, 7018-7024	3.6	2

35	The Formation Mechanism of Binary Semiconductor Nanomaterials: Shared by Single-Source and Dual-Source Precursor Approaches. <i>Angewandte Chemie</i> , 2013 , 125, 11240-11245	3.6	4
34	The formation mechanism of binary semiconductor nanomaterials: shared by single-source and dual-source precursor approaches. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 11034-9	16.4	33
33	Effect of tertiary and secondary phosphines on low-temperature formation of quantum dots. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 4823-8	16.4	50
32	Low-temperature approach to highly emissive copper indium sulfide colloidal nanocrystals and their bioimaging applications. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 2870-80	9.5	83
31	Effect of Tertiary and Secondary Phosphines on Low-Temperature Formation of Quantum Dots. <i>Angewandte Chemie</i> , 2013 , 125, 4923-4928	3.6	12
30	CdSe magic-sized nuclei, magic-sized nanoclusters and regular nanocrystals: monomer effects on nucleation and growth. <i>Advanced Materials</i> , 2012 , 24, 1123-32	24	82
29	Ultraviolet ZnSe _x S _{1-x} gradient-alloyed nanocrystals via a noninjection approach. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 4302-11	9.5	34
28	Highly-photoluminescent ZnSe nanocrystals via a non-injection-based approach with precursor reactivity elevated by a secondary phosphine. <i>Chemical Communications</i> , 2011 , 47, 8811-3	5.8	43
27	In-situ observation of nucleation and growth of PbSe magic-sized nanoclusters and regular nanocrystals. <i>Small</i> , 2011 , 7, 2250-62	11	49
26	A Simple Reducing Approach Using Amine To Give Dual Functional EuSe Nanocrystals and Morphological Tuning. <i>Angewandte Chemie</i> , 2011 , 123, 7729-7733	3.6	7
25	Low-temperature approach to high-yield and reproducible syntheses of high-quality small-sized PbSe colloidal nanocrystals for photovoltaic applications. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 553-65	9.5	53
24	Low-temperature noninjection approach to homogeneously-alloyed PbSe(x)S(1-x) colloidal nanocrystals for photovoltaic applications. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 1511-20	9.5	47
23	Thermodynamic Equilibrium-Driven Formation of Single-Sized Nanocrystals: Reaction Media Tuning CdSe Magic-Sized versus Regular Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 3329-3339	3.8	64
22	Magic-Sized Cd ₃ P ₂ III \bar{V} Nanoparticles Exhibiting Bandgap Photoemission. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 17979-17982	3.8	48
21	Single-Sized CdSe Nanocrystals with Bandgap Photoemission via a Noninjection One-Pot Approach. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 3390-3401	3.8	62
20	Homogeneously-Alloyed CdTeSe Single-Sized Nanocrystals with Bandgap Photoluminescence. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 3402-3408	3.8	62
19	CdS magic-sized nanocrystals exhibiting bright band gap photoemission via thermodynamically driven formation. <i>ACS Nano</i> , 2009 , 3, 3832-8	16.7	80
18	Photoluminescent Colloidal CdS Nanocrystals with High Quality via Noninjection One-Pot Synthesis in 1-Octadecene. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 7579-7593	3.8	68

17	Single-sized colloidal CdTe nanocrystals with strong bandgap photoluminescence. <i>Chemical Communications</i> , 2009 , 962-4	5.8	38
16	Gradiently Alloyed Zn _x Cd _{1-x} S Colloidal Photoluminescent Quantum Dots Synthesized via a Noninjection One-Pot Approach. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 4908-4919	3.8	103
15	Multiple Families of Magic-Sized CdSe Nanocrystals with Strong Bandgap Photoluminescence via Noninjection One-Pot Syntheses. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 13805-13811	3.8	141
14	Upconversion Luminescence of Colloidal CdS and ZnCdS Semiconductor Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 16261-16266	3.8	52
13	Solid state NMR studies of photoluminescent cadmium chalcogenide nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2006 , 8, 3510-9	3.6	70
12	The Effect of Dispersion Media on Photoluminescence of Colloidal CdSe Nanocrystals Synthesized from TOP. <i>Chemistry of Materials</i> , 2005 , 17, 2552-2561	9.6	39
11	Effect of reaction media on the growth and photoluminescence of colloidal CdSe nanocrystals. <i>Langmuir</i> , 2004 , 20, 11161-8	4	41
10	Syntheses of Silica/Polystyrene-block-Poly(ethylene oxide) Films with Regular and Reverse Mesostructures of Large Characteristic Length Scales by Solvent Evaporation-Induced Self-Assembly. <i>Langmuir</i> , 2001 , 17, 7961-7965	4	115
9	Polystyrene-Poly(ethylene oxide) Diblock Copolymers Form Well-Defined Surface Aggregates at the Air/Water Interface. <i>Langmuir</i> , 1999 , 15, 7714-7718	4	140
8	Narrow spectrum of cross-sensitization with pyridine derivatives. <i>Contact Dermatitis</i> , 1998 , 38, 212-4	2.7	3
7	Vesicles with Hollow Rods in the Walls: A Trapped Intermediate Morphology in the Transition of Vesicles to Inverted Hexagonally Packed Rods in Dilute Solutions of PS-b-PEO. <i>Macromolecules</i> , 1998 , 31, 9399-9402	5.5	68
6	Multiple morphologies of amphiphilic diblock copolymer micelles in two and three dimensions. <i>Macromolecular Symposia</i> , 1997 , 118, 647-655	0.8	9
5	Novel Morphologies of Crew-Cut Aggregates of Amphiphilic Diblock Copolymers in Dilute Solution. <i>Langmuir</i> , 1996 , 12, 5980-5984	4	256
4	Contact sensitization to pyridine derivatives. <i>Contact Dermatitis</i> , 1996 , 35, 100-1	2.7	18
3	Metal-Based Nanoparticle Magnetic Resonance Imaging Contrast Agents: Classifications, Issues, and Countermeasures toward their Clinical Translation. <i>Advanced Materials Interfaces</i> , 2010 , 1, 1710	4.6	0
2	Precursor compound enabled formation of aqueous-phase CdSe magic-size clusters at room temperature. <i>Nano Research</i> , 2010 , 1, 1	10	0
1	Room-Temperature Evolution of Ternary CdTeS Magic-Size Clusters Exhibiting Sharp Absorption Peaking at 381 nm. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 4941-4948	6.4	2