Kui Yu

List of Publications by Year
in descending order

89 papers	3,720 citations	87723 38 h-index	133063 59 g-index
95 all docs	95 docs citations	95 times ranked	3511 citing authors

#	Article	IF	Citations
1	Novel Morphologies of â€œCrew-Cutâ€• Aggregates of Amphiphilic Diblock Copolymers in Dilute Solution. Langmuir, 1996, 12, 5980-5984.	1.6	274
2	pH- and Temperature-Sensitive Hydrogel Nanoparticles with Dual Photoluminescence for Bioprobes. ACS Nano, 2016, 10, 5856-5863.	7.3	195
3	Multiple Families of Magic-Sized CdSe Nanocrystals with Strong Bandgap Photoluminescence via Noninjection One-Pot Syntheses. Journal of Physical Chemistry C, 2008, 112, 13805-13811.	1.5	157
4	Polystyreneâ^'Poly(ethylene oxide) Diblock Copolymers Form Well-Defined Surface Aggregates at the Air/Water Interface. Langmuir, 1999, 15, 7714-7718.	1.6	148
5	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. Langmuir, 2001, 17, 7961-7965.	1.6	127
6	Gradiently Alloyed Zn<i>_x</i>Cd₁₋<i>_x</i>S Colloidal Photoluminescent Quantum Dots Synthesized via a Noninjection One-Pot Approach. Journal of Physical Chemistry C, 2008, 112, 4908-4919.	1.5	111
7	CdSe Magicâ€Sized Nuclei, Magicâ€Sized Nanoclusters and Regular Nanocrystals: Monomer Effects on Nucleation and Growth. Advanced Materials, 2012, 24, 1123-1132.	11.1	95
8	Low-Temperature Approach to Highly Emissive Copper Indium Sulfide Colloidal Nanocrystals and Their Bioimaging Applications. ACS Applied Materials & Interfaces, 2013, 5, 2870-2880.	4.0	95
9	CdS Magic-Sized Nanocrystals Exhibiting Bright Band Gap Photoemission via Thermodynamically Driven Formation. ACS Nano, 2009, 3, 3832-3838.	7.3	88
10	Probing intermediates of the induction period prior to nucleation and growth of semiconductor quantum dots. Nature Communications, 2017, 8, 15467.	5.8	87
11	Thermally-induced reversible structural isomerization in colloidal semiconductor CdS magic-size clusters. Nature Communications, 2018, 9, 2499.	5.8	79
12	Antitumor Effect by Hydroxyapatite Nanospheres: Activation of Mitochondria-Dependent Apoptosis and Negative Regulation of Phosphatidylinositol-3-Kinase/Protein Kinase B Pathway. ACS Nano, 2018, 12, 7838-7854.	7.3	79
13	Photoluminescent Colloidal CdS Nanocrystals with High Quality via Noninjection One-Pot Synthesis in 1-Octadecene. Journal of Physical Chemistry C, 2009, 113, 7579-7593.	1.5	75
14	Vesicles with Hollow Rods in the Walls:Â A Trapped Intermediate Morphology in the Transition of Vesicles to Inverted Hexagonally Packed Rods in Dilute Solutions of PS-b-PEO. Macromolecules, 1998, 31, 9399-9402.	2.2	74
15	Solid state NMR studies of photoluminescent cadmium chalcogenide nanoparticles. Physical Chemistry Chemical Physics, 2006, 8, 3510.	1.3	73
16	Thermodynamic Equilibrium-Driven Formation of Single-Sized Nanocrystals: Reaction Media Tuning CdSe Magic-Sized versus Regular Quantum Dots. Journal of Physical Chemistry C, 2010, 114, 3329-3339.	1.5	71
17	Two-Step Nucleation of CdS Magic-Size Nanocluster MSCâ€"311. Chemistry of Materials, 2017, 29, 5727-5735.	3.2	68
18	Single-Sized CdSe Nanocrystals with Bandgap Photoemission via a Noninjection One-Pot Approach. Journal of Physical Chemistry C, 2009, 113, 3390-3401.	1.5	67

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19	Homogeneously-Alloyed CdTeSe Single-Sized Nanocrystals with Bandgap Photoluminescence. Journal of Physical Chemistry C, 2009, 113, 3402-3408.	1.5	67
20	The Future of Colloidal Semiconductor Magic-Size Clusters. ACS Nano, 2020, 14, 1227-1235.	7.3	66
21	Individual Pathways in the Formation of Magic-Size Clusters and Conventional Quantum Dots. Journal of Physical Chemistry Letters, 2018, 9, 3660-3666.	2.1	62
22	Interpreting the Ultraviolet Absorption in the Spectrum of 415 nm-Bandgap CdSe Magic-Size Clusters. Journal of Physical Chemistry Letters, 2018, 9, 2818-2824.	2.1	57
23	Precursor Selfâ€Assembly Identified as a General Pathway for Colloidal Semiconductor Magicâ€Size Clusters. Advanced Science, 2018, 5, 1800632.	5.6	56
24	Effect of Tertiary and Secondary Phosphines on Lowâ€Temperature Formation of Quantum Dots. Angewandte Chemie - International Edition, 2013, 52, 4823-4828.	7.2	55
25	Upconversion Luminescence of Colloidal CdS and ZnCdS Semiconductor Quantum Dots. Journal of Physical Chemistry C, 2007, 111, 16261-16266.	1.5	54
26	Magic-Sized Cd₃P₂ IIâˆ’V Nanoparticles Exhibiting Bandgap Photoemission. Journal of Physical Chemistry C, 2009, 113, 17979-17982.	1.5	54
27	Low-Temperature Approach to High-Yield and Reproducible Syntheses of High-Quality Small-Sized PbSe Colloidal Nanocrystals for Photovoltaic Applications. ACS Applied Materials & Interfaces, 2011, 3, 553-565.	4.0	54
28	Highly-photoluminescent ZnSe nanocrystals via a non-injection-based approach with precursor reactivity elevated by a secondary phosphine. Chemical Communications, 2011, 47, 8811.	2.2	50
29	Inâ€Situ Observation of Nucleation and Growth of PbSe Magicâ€Sized Nanoclusters and Regular Nanocrystals. Small, 2011, 7, 2250-2262.	5.2	50
30	Formation of colloidal alloy semiconductor CdTeSe magic-size clusters at room temperature. Nature Communications, 2019, 10, 1674.	5.8	49
31	Low-Temperature Noninjection Approach to Homogeneously-Alloyed PbSe_{<i>x</i>}S_{1âˆ’<i>x</i>} Colloidal Nanocrystals for Photovoltaic Applications. ACS Applied Materials & Interfaces, 2011, 3, 1511-1520.	4.0	48
32	Bright Gradient-Alloyed CdSe_{<i>x</i>}S_{1â€“<i>x</i>} Quantum Dots Exhibiting Cyan-Blue Emission. Chemistry of Materials, 2016, 28, 618-625.	3.2	47
33	Evolution of Two Types of CdTe Magic-Size Clusters from a Single Induction Period Sample. Journal of Physical Chemistry Letters, 2018, 9, 5288-5295.	2.1	46
34	General low-temperature reaction pathway from precursors to monomers before nucleation of compound semiconductor nanocrystals. Nature Communications, 2016, 7, 12223.	5.8	44
35	Four Types of CdTe Magic-Size Clusters from One Prenucleation Stage Sample at Room Temperature. Journal of Physical Chemistry Letters, 2019, 10, 4345-4353.	2.1	44
36	Effect of Reaction Media on the Growth and Photoluminescence of Colloidal CdSe Nanocrystals. Langmuir, 2004, 20, 11161-11168.	1.6	42

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37	Single-sized colloidal CdTe nanocrystals with strong bandgap photoluminescence. Chemical Communications, 2009, , 962.	2.2	41
38	The Effect of Dispersion Media on Photoluminescence of Colloidal CdSe Nanocrystals Synthesized from TOP. Chemistry of Materials, 2005, 17, 2552-2561.	3.2	39
39	Ultraviolet ZnSe_{1â€"<i>x</i>}S_{<i>x</i>} Gradient-Alloyed Nanocrystals via a Noninjection Approach. ACS Applied Materials & Interfaces, 2012, 4, 4302-4311.	4.0	36
40	Transformations Among Colloidal Semiconductor Magic-Size Clusters. Accounts of Chemical Research, 2021, 54, 776-786.	7.6	35
41	The Formation Mechanism of Binary Semiconductor Nanomaterials: Shared by Singleâ€Source and Dualâ€Source Precursor Approaches. Angewandte Chemie - International Edition, 2013, 52, 11034-11039.	7.2	34
42	Fragmentation of Magicâ€Size Cluster Precursor Compounds into Ultrasmall CdS Quantum Dots with Enhanced Particle Yield at Low Temperatures. Angewandte Chemie - International Edition, 2020, 59, 12013-12021.	7.2	33
43	Colloidal CdSe 0-Dimension Nanocrystals and Their Self-Assembled 2-Dimension Structures. Chemistry of Materials, 2018, 30, 1575-1584.	3.2	32
44	Transformation of ZnS Precursor Compounds to Magic-Size Clusters Exhibiting Optical Absorption Peaking at 269 nm. Journal of Physical Chemistry Letters, 2020, 11, 75-82.	2.1	32
45	One-Step Approach to Single-Ensemble CdS Magic-Size Clusters with Enhanced Production Yields. Journal of Physical Chemistry Letters, 2019, 10, 2725-2732.	2.1	25
46	Mechanistic Study of the Role of Primary Amines in Precursor Conversions to Semiconductor Nanocrystals at Low Temperature. Angewandte Chemie - International Edition, 2014, 53, 6898-6904.	7.2	24
47	Photoluminescent Colloidal Nanohelices Self-Assembled from CdSe Magic-Size Clusters via Nanoplatelets. Journal of Physical Chemistry Letters, 2019, 10, 2794-2801.	2.1	24
48	A Twoâ€Pathway Model for the Evolution of Colloidal Compound Semiconductor Quantum Dots and Magicâ€Size Clusters. Advanced Materials, 2022, 34, e2107940.	11.1	24
49	Contact sensitization to pyridine derivatives. Contact Dermatitis, 1996, 35, 100-125.	0.8	22
50	Effect of Small Molecule Additives in the Prenucleation Stage of Semiconductor CdSe Quantum Dots. Journal of Physical Chemistry Letters, 2018, 9, 6356-6363.	2.1	22
51	Structures of CdSe and CdS Nanoclusters from Ab Initio Random Structure Searching. Journal of Physical Chemistry C, 2019, 123, 29370-29378.	1.5	22
52	Roomâ€Temperature Formation Pathway for CdTeSe Alloy Magicâ€Size Clusters. Angewandte Chemie - International Edition, 2020, 59, 16943-16952.	7.2	22
53	Room-temperature formation of CdS magic-size clusters in aqueous solutions assisted by primary amines. Nature Communications, 2020, 11, 4199.	5.8	21
54	Unveiling the Two-Step Formation Pathway of Cs₄PbBr₆ Nanocrystals. Chemistry of Materials, 2020, 32, 4574-4583.	3.2	21

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55	Evolution of CdTe Magic-Size Clusters with Single Absorption Doublet Assisted by Adding Small Molecules during Prenucleation. Journal of Physical Chemistry Letters, 2020, 11, 2230-2240.	2.1	21
56	X-ray total scattering study of magic-size clusters and quantum dots of cadmium sulphide. Nanoscale, 2019, 11, 21900-21908.	2.8	17
57	Reversible Transformations at Room Temperature among Three Types of CdTe Magic-Size Clusters. Inorganic Chemistry, 2021, 60, 4243-4251.	1.9	17
58	Metalâ€Based Nanoparticle Magnetic Resonance Imaging Contrast Agents: Classifications, Issues, and Countermeasures toward their Clinical Translation. Advanced Materials Interfaces, 2022, 9, .	1.9	17
59	Role of Alcohol in the Synthesis of CdS Quantum Dots. Chemistry of Materials, 2020, 32, 1430-1438.	3.2	16
60	Ophthalmic Drops with Nanoparticles Derived from a Natural Product for Treating Age-Related Macular Degeneration. ACS Applied Materials & Interfaces, 2020, 12, 57710-57720.	4.0	15
61	Transformation Pathway from CdSe Magicâ€Size Clusters with Absorption Doublets at 373/393â€…nm to Clusters at 434/460â€…nm. Angewandte Chemie - International Edition, 2021, 60, 20358-20365.	7.2	15
62	The precursor compound of two types of ZnSe magic-sized clusters. Nano Research, 2022, 15, 465-474.	5.8	14
63	A Realâ€Time In Situ Demonstration of Direct and Indirect Transformation Pathways in CdTe Magicâ€Size Clusters at Room Temperature. Angewandte Chemie - International Edition, 2022, 61, .	7.2	14
64	Fragmentation of Magicâ€Size Cluster Precursor Compounds into Ultrasmall CdS Quantum Dots with Enhanced Particle Yield at Low Temperatures. Angewandte Chemie, 2020, 132, 12111-12119.	1.6	13
65	Transformation Pathways in Colloidal CdTeSe Magicâ€Size Clusters. Angewandte Chemie - International Edition, 2022, 61, .	7.2	10
66	Multiple morphologies of amphiphilic diblock copolymer micelles in two and three dimensions. Macromolecular Symposia, 1997, 118, 647-655.	0.4	9
67	CdS magic-size clusters exhibiting one sharp ultraviolet absorption singlet peaking at 361 nm. Nano Research, 2019, 12, 1437-1444.	5.8	9
68	<i>In situ</i> SAXS probing the evolution of the precursors and onset of nucleation of ZnSe colloidal semiconductor quantum dots. Chemical Communications, 2020, 56, 2031-2034.	2.2	8
69	Insights into the Mechanistic Role of Diphenylphosphine Selenide, Diphenylphosphine, and Primary Amines in the Formation of CdSe Monomers. Journal of Physical Chemistry A, 2016, 120, 918-931.	1.1	7
70	Transformation Pathway from CdSe Nanoplatelets with Absorption Doublets at 373/393 nm to Nanoplatelets at 434/460 nm. Journal of Physical Chemistry Letters, 2022, 13, 3983-3989.	2.1	7
71	Analysis of the atomic structure of CdS magic-size clusters by X-ray absorption spectroscopy. Nanoscale, 2020, 12, 19325-19332.	2.8	6
72	Roomâ€Temperature Formation Pathway for CdTeSe Alloy Magicâ€Size Clusters. Angewandte Chemie, 2020, 132, 17091-17100.	1.6	6

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73	Evolution of Two Types of ZnTe Magic-Size Clusters Displaying Sharp Doublets in Optical Absorption. Journal of Physical Chemistry Letters, 2021, 12, 4762-4768.	2.1	6
74	DFT study for the absorption spectra evolution of CdS magic-size clusters. Chemical Physics Letters, 2021, 779, 138870.	1.2	6
75	Precursor compound enabled formation of aqueous-phase CdSe magic-size clusters at room temperature. Nano Research, 2022, 15, 2634-2642.	5.8	6
76	Room-Temperature Evolution of Ternary CdTeS Magic-Size Clusters Exhibiting Sharp Absorption Peaking at 381 nm. Journal of Physical Chemistry Letters, 2022, 13, 4941-4948.	2.1	5
77	Arginine-grafted porcine pericardium by copolymerization to improve the cytocompatibility, hemocompatibility and anti-calcification properties of bioprosthetic heart valve materials. Journal of Materials Chemistry B, 2022, 10, 5571-5581.	2.9	5
78	Energetics of Nonradiative Surface Trap States in Nanoparticles Monitored by Time-of-Flight Photoconduction Measurements on Nanoparticleâ€"Polymer Blends. ACS Applied Materials & Interfaces, 2019, 11, 37184-37192.	4.0	4
79	Identifying Clusters and/or Small-Size Quantum Dots in Colloidal CdSe Ensembles with Optical Spectroscopy. Journal of Physical Chemistry Letters, 2019, 10, 6399-6408.	2.1	4
80	Narrow spectrum of cross-sensitization with pyridine derivatives. Contact Dermatitis, 1998, 38, 212-214.	0.8	3
81	Absorption Features of CdTe Nanoclusters: Aspect Ratio Dependency of the Singlet/Doublet from First-Principles Calculations. Journal of Physical Chemistry C, 2021, 125, 25660-25669.	1.5	3
82	Evolution of Photoluminescent CdS Magic-Size Clusters Assisted by Adding Small Molecules with Carboxylic Group. ACS Omega, 2021, 6, 14458-14466.	1.6	2
83	Transformation Pathway from CdSe Magicâ€Size Clusters with Absorption Doublets at 373/393â€…nm to Clusters at 434/460â€…nm. Angewandte Chemie, 2021, 133, 20521-20528.	1.6	2
84	Transformation Pathways in Colloidal CdTeSe Magicâ€Size Clusters. Angewandte Chemie, 0, , .	1.6	2
85	Size matters: Steric hindrance of precursor molecules controlling the evolution of CdSe magic-size clusters and quantum dots. Nano Research, 2022, 15, 8564-8572.	5.8	2
86	Effect of One-Coordinated Atoms on the Electronic and Optical Properties of ZnSe Clusters. ACS Omega, 2021, 6, 18711-18718.	1.6	1
87	AÂRealâ€Time Inâ€situ Demonstration of Direct and IndirectÂTransformation Pathways in CdTe Magicâ€size Clusters at Room Temperature. Angewandte Chemie, 0, , .	1.6	1
88	Innentitelbild: Roomâ€Temperature Formation Pathway for CdTeSe Alloy Magicâ€Size Clusters (Angew.) Tj ETQq0 0 0 rgBT /Overlock 10	1.6	0
89	InnenrÃ¼cktitelbild: Transformation Pathway from CdSe Magicâ€Size Clusters with Absorption Doublets at 373/393â€…nm to Clusters at 434/460â€…nm (Angew. Chem. 37/2021). Angewandte Chemie, 2021, 133, 20731-20731.	1.6	0