## Zhenda Lu

## List of Publications by Citations

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118 116 13,583 49 h-index g-index citations papers 6.58 128 15,296 11.5 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
118	A pomegranate-inspired nanoscale design for large-volume-change lithium battery anodes. <i>Nature Nanotechnology</i> , <b>2014</b> , 9, 187-92	28.7	1804
117	Selective deposition and stable encapsulation of lithium through heterogeneous seeded growth. <i>Nature Energy</i> , <b>2016</b> , 1,	62.3	1065
116	Composite lithium metal anode by melt infusion of lithium into a 3D conducting scaffold with lithiophilic coating. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 2862-7	11.5	643
115	A systematic study of the synthesis of silver nanoplates: is citrate a "magic" reagent?. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 18931-9	16.4	563
114	Ultrathin two-dimensional atomic crystals as stable interfacial layer for improvement of lithium metal anode. <i>Nano Letters</i> , <b>2014</b> , 14, 6016-22	11.5	545
113	Growth of conformal graphene cages on micrometre-sized silicon particles as stable battery anodes. <i>Nature Energy</i> , <b>2016</b> , 1,	62.3	509
112	Challenges and Recent Progress in the Development of Si Anodes for Lithium-Ion Battery. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700715	21.8	459
111	Nonfilling carbon coating of porous silicon micrometer-sized particles for high-performance lithium battery anodes. <i>ACS Nano</i> , <b>2015</b> , 9, 2540-7	16.7	372
110	A high tap density secondary silicon particle anode fabricated by scalable mechanical pressing for lithium-ion batteries. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 2371-2376	35.4	339
109	Syntheses, Structures, and Physical Properties of Three Novel Metal Drganic Frameworks Constructed from Aromatic Polycarboxylate Acids and Flexible Imidazole-Based Synthons. <i>Crystal Growth and Design</i> , <b>2007</b> , 7, 93-99	3.5	328
108	Colloidal nanoparticle clusters: functional materials by design. Chemical Society Reviews, <b>2012</b> , 41, 6874	- <b>§</b> \$.5	319
107	Magnetically recoverable core-shell nanocomposites with enhanced photocatalytic activity. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 6243-50	4.8	285
106	Highly stable silver nanoplates for surface plasmon resonance biosensing. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 5629-33	16.4	281
105	Upconversion luminescence with tunable lifetime in NaYF4:Yb,Er nanocrystals: role of nanocrystal size. <i>Nanoscale</i> , <b>2013</b> , 5, 944-52	7.7	278
104	Syntheses and Structures of Four d10 Metal <b>©</b> rganic Frameworks Assembled with Aromatic Polycarboxylate and bix [bix = 1,4-Bis(imidazol-1-ylmethyl)benzene]. <i>Crystal Growth and Design</i> , <b>2006</b> , 6, 530-537	3.5	256
103	A Three-Dimensionally Interconnected Carbon Nanotubellonducting Polymer Hydrogel Network for High-Performance Flexible Battery Electrodes. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1400207	21.8	242
102	Artificial Solid Electrolyte Interphase-Protected LixSi Nanoparticles: An Efficient and Stable Prelithiation Reagent for Lithium-Ion Batteries. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 837	7 <u>1</u> 6 <sub>5</sub> 4	232

## (2016-2009)

101	Reconstruction of silver nanoplates by UV irradiation: tailored optical properties and enhanced stability. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 3516-9	16.4	219	
100	High-Performance Lithium Metal Negative Electrode with a Soft and Flowable Polymer Coating. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 1247-1255	20.1	218	
99	Magnetochromatic microspheres: rotating photonic crystals. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 15687-94	16.4	214	
98	Rewritable Photonic Paper with Hygroscopic Salt Solution as Ink. <i>Advanced Materials</i> , <b>2009</b> , 21, 4259-42	624	204	
97	Dry-air-stable lithium silicide-lithium oxide core-shell nanoparticles as high-capacity prelithiation reagents. <i>Nature Communications</i> , <b>2014</b> , 5, 5088	17.4	203	
96	Crab shells as sustainable templates from nature for nanostructured battery electrodes. <i>Nano Letters</i> , <b>2013</b> , 13, 3385-90	11.5	185	
95	Porous monodisperse V2O5 microspheres as cathode materials for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 6365		176	
94	Templated synthesis of metal nanorods in silica nanotubes. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 19706-9	16.4	168	
93	High-Areal-Capacity Silicon Electrodes with Low-Cost Silicon Particles Based on Spatial Control of Self-Healing Binder. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1401826	21.8	166	
92	Rattle-type silica colloidal particles prepared by a surface-protected etching process. <i>Nano Research</i> , <b>2009</b> , 2, 583-591	10	164	
91	Photocatalytic synthesis and photovoltaic application of Ag-TiO2 nanorod composites. <i>Nano Letters</i> , <b>2013</b> , 13, 5698-702	11.5	162	
90	Direct Conversion of Perovskite Thin Films into Nanowires with Kinetic Control for Flexible Optoelectronic Devices. <i>Nano Letters</i> , <b>2016</b> , 16, 871-6	11.5	147	
89	Core-Shell Nanoparticle Coating as an Interfacial Layer for Dendrite-Free Lithium Metal Anodes. <i>ACS Central Science</i> , <b>2017</b> , 3, 135-140	16.8	140	
88	Self-assembly and photocatalysis of mesoporous TiO2 nanocrystal clusters. <i>Nano Research</i> , <b>2011</b> , 4, 103	-104	126	
87	Self-assembled TiO2 nanocrystal clusters for selective enrichment of intact phosphorylated proteins. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 1862-6	16.4	119	
86	A Sulfur Cathode with Pomegranate-Like Cluster Structure. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 150021	121.8	108	
85	Mesoporous TiO(2) nanocrystal clusters for selective enrichment of phosphopeptides. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 7249-58	7.8	108	
84	Metallurgically lithiated SiOx anode with high capacity and ambient air compatibility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 7408-13	11.5	103	

83	Role of salt in the spontaneous assembly of charged gold nanoparticles in ethanol. <i>Langmuir</i> , <b>2011</b> , 27, 5282-9	4	91
82	Direct assembly of hydrophobic nanoparticles to multifunctional structures. <i>Nano Letters</i> , <b>2011</b> , 11, 340	04-11.3	91
81	Precise Perforation and Scalable Production of Si Particles from Low-Grade Sources for High-Performance Lithium Ion Battery Anodes. <i>Nano Letters</i> , <b>2016</b> , 16, 7210-7215	11.5	89
80	In situ observation of divergent phase transformations in individual sulfide nanocrystals. <i>Nano Letters</i> , <b>2015</b> , 15, 1264-71	11.5	86
79	One-pot synthesis and optical property of copper(I) sulfide nanodisks. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 6601-8	5.1	85
78	Gram-scale synthesis of silica nanotubes with controlled aspect ratios by templating of nickel-hydrazine complex nanorods. <i>Langmuir</i> , <b>2011</b> , 27, 12201-8	4	77
77	Syntheses, Structures, and Photoluminescent and Magnetic Studies of Metal Drganic Frameworks Assembled with 5-Sulfosalicylic Acid and 1,4-Bis(imidazol-1-ylmethyl)-benzene. <i>Crystal Growth and Design</i> , <b>2007</b> , 7, 268-274	3.5	75
76	Shape- and Size-Controlled Synthesis of Calcium Molybdate Doughnut-Shaped Microstructures. Journal of Physical Chemistry C, <b>2009</b> , 113, 16414-16423	3.8	65
75	Surface passivation of mixed-halide perovskite CsPb(BrI) nanocrystals by selective etching for improved stability. <i>Nanoscale</i> , <b>2017</b> , 9, 7391-7396	7.7	58
74	Enhancing Luminescence and Photostability of CsPbBr3 Nanocrystals via Surface Passivation with Silver Complex. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 12994-13000	3.8	55
73	Highly Efficient Water Decontamination by Using Sub-10 nm FeOOH Confined within Millimeter-Sized Mesoporous Polystyrene Beads. <i>Environmental Science &amp; Decomposity</i> , 2017, 51, 9210-9218	10.3	55
72	Two types of novel layer framework structures assembled from 5-sulfosalicylic acid and lanthanide ions. <i>CrystEngComm</i> , <b>2006</b> , 8, 847	3.3	55
71	Efficient plasmon-hot electron conversion in Ag-CsPbBr hybrid nanocrystals. <i>Nature Communications</i> , <b>2019</b> , 10, 1163	17.4	54
70	Reconstruction of Silver Nanoplates by UV Irradiation: Tailored Optical Properties and Enhanced Stability. <i>Angewandte Chemie</i> , <b>2009</b> , 121, 3568-3571	3.6	54
69	Synthesis and thermochromic properties of vanadium dioxide colloidal particles. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 14776		49
68	Magnetic Field-Controlled Lithium Polysulfide Semiliquid Battery with Ferrofluidic Properties. <i>Nano Letters</i> , <b>2015</b> , 15, 7394-9	11.5	48
67	Nanopurification of silicon from 84% to 99.999% purity with a simple and scalable process. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 13473-7	11.5	46
66	Self-assembly and tunable plasmonic property of gold nanoparticles on mercapto-silica microspheres. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 4597		41

## (2013-2010)

65	Stable Bulky Particles Formed by TS-1 Zeolite Nanocrystals in the Presence of H2O2. <i>ChemCatChem</i> , <b>2010</b> , 2, 407-412	5.2	38
64	Mesoporous Ce-Ti-Zr ternary oxide millispheres for efficient catalytic ozonation in bubble column. <i>Chemical Engineering Journal</i> , <b>2018</b> , 338, 261-270	14.7	35
63	Assembly of LiMnPO Nanoplates into Microclusters as a High-Performance Cathode in Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Acs Acs Applied Materials &amp; Acs Acs Applied Materials &amp; Acs Acs Acs Acs Acs Acs Acs Acs Acs Acs</i>	9.5	33
62	Ultrasonic activation of inert poly(tetrafluoroethylene) enables piezocatalytic generation of reactive oxygen species. <i>Nature Communications</i> , <b>2021</b> , 12, 3508	17.4	33
61	A systematic study of the synthesis of cesium lead halide nanocrystals: does CsPbBr or CsPbBr form?. <i>Nanoscale</i> , <b>2019</b> , 11, 1784-1789	7.7	32
60	Assembly and photonic properties of superparamagnetic colloids in complex magnetic fields. <i>Langmuir</i> , <b>2011</b> , 27, 13444-50	4	32
59	Highly luminescent CsPbBr3 nanorods synthesized by a ligand-regulated reaction at the waterBil interface. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 1854-1858	7.1	31
58	Self-Assembled TiO2 Nanorods as Electron Extraction Layer for High-Performance Inverted Polymer Solar Cells. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 44-52	9.6	31
57	Thermal Lithiated-TiO: A Robust and Electron-Conducting Protection Layer for Li-Si Alloy Anode. <i>ACS Applied Materials &amp; Distriction (Materials &amp; Distriction (Materials &amp; Distriction) (Materials &amp; Dis</i>	9.5	29
56	Li -Containing, Continuous Silica Nanofibers for High Li Conductivity in Composite Polymer Electrolyte. <i>Small</i> , <b>2019</b> , 15, e1902729	11	29
55	Fine-tuning the metallic core-shell nanostructures for plasmonic perovskite solar cells. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 183901	3.4	28
54	Highly enhanced durability of a graphitic carbon layer decorated PtNi alloy electrocatalyst toward the oxygen reduction reaction. <i>Chemical Communications</i> , <b>2019</b> , 55, 5693-5696	5.8	26
53	Oxygen-Deficient Ferric Oxide as an Electrochemical Cathode Catalyst for High-Energy Lithium-Sulfur Batteries. <i>Small</i> , <b>2020</b> , 16, e2000870	11	26
52	Superparamagnetic nanocrystal clusters for enrichment of low-abundance peptides and proteins. <i>Chemical Communications</i> , <b>2010</b> , 46, 6174-6	5.8	26
51	Self-Assembled TiO2 Nanocrystal Clusters for Selective Enrichment of Intact Phosphorylated Proteins. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 1906-1910	3.6	26
50	Formation mechanism and size control in one-pot synthesis of mercapto-silica colloidal spheres. <i>Langmuir</i> , <b>2011</b> , 27, 3372-80	4	25
49	A new strategy to address the challenges of nanoparticles in practical water treatment: mesoporous nanocomposite beads via flash freezing. <i>Nanoscale</i> , <b>2017</b> , 9, 19154-19161	7.7	24
48	Mesoporous titanate-based cation exchanger for efficient removal of metal cations. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 5097	13	24

47	Gallium Carbenicillin Framework Coated Defect-Rich Hollow TiO2 as a Photocatalyzed Oxidative Stress Amplifier against Complex Infections. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2004861	15.6	24
46	Free-Standing Graphene-Encapsulated Silicon Nanoparticle Aerogel as an Anode for Lithium Ion Batteries. <i>ChemNanoMat</i> , <b>2016</b> , 2, 671-674	3.5	22
45	Highly Stable Silver Nanoplates for Surface Plasmon Resonance Biosensing. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 5727-5731	3.6	21
44	A novel 2D herringbone-like zinc coordination polymer built from helical motif: Hydrothermal synthesis, structure and properties. <i>Inorganic Chemistry Communication</i> , <b>2007</b> , 10, 74-76	3.1	20
43	Atomic Characterization of Byproduct Nanoparticles on Cesium Lead Halide Nanocrystals Using High-Resolution Scanning Transmission Electron Microscopy. <i>Crystals</i> , <b>2018</b> , 8, 2	2.3	19
42	Systematic Investigation of Prelithiated SiO2 Particles for High-Performance Anodes in Lithium-Ion Battery. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 1245	2.6	17
41	Ultrasensitive Detection of Bacterial Protein Toxins on Patterned Microarray via Surface Plasmon Resonance Imaging with Signal Amplification by Conjugate Nanoparticle Clusters. <i>ACS Sensors</i> , <b>2018</b> , 3, 1639-1646	9.2	16
40	Water-assisted crystallization of mesoporous anatase TiO2 nanospheres. <i>Nanoscale</i> , <b>2016</b> , 8, 9113-7	7.7	15
39	Lanthanide upconversion within microstructured optical fibers: improved detection limits for sensing and the demonstration of a new tool for nanocrystal characterization. <i>Nanoscale</i> , <b>2012</b> , 4, 7448	3- <b>3</b> 17	14
38	Understanding the role of conductive polymer in thermal lithiation and battery performance of Li-Sn alloy anode. <i>Energy Storage Materials</i> , <b>2019</b> , 20, 7-13	19.4	14
37	Selective removal of nitrate via the synergistic effect of oxygen vacancies and plasmon-induced hot carriers. <i>Chemical Engineering Journal</i> , <b>2020</b> , 397, 125435	14.7	13
36	Epitaxial growth of gold on silver nanoplates for imaging-guided photothermal therapy. <i>Materials Science and Engineering C</i> , <b>2019</b> , 105, 110023	8.3	13
35	Fabrication of Homogeneous Non-Noble Metal Nanoparticles within Metal®rganic Framework Nanosheets for Catalytic Reduction of 4-Nitrophenol. <i>Crystal Growth and Design</i> , <b>2020</b> , 20, 6217-6225	3.5	13
34	Preventing Anion Exchange between Perovskite Nanocrystals by Confinement in Porous SiO Nanobeads. <i>ACS Omega</i> , <b>2019</b> , 4, 22209-22213	3.9	13
33	Boosting the cycling stability of LixSi alloy microparticles through electroless copper deposition. <i>Chemical Engineering Journal</i> , <b>2019</b> , 370, 1019-1026	14.7	12
32	Fluorescence hydrogel array based on interfacial cation exchange amplification for highly sensitive microRNA detection. <i>Analytica Chimica Acta</i> , <b>2019</b> , 1080, 206-214	6.6	12
31	In Situ Tuning of Defects and Phase Transition in Titanium Dioxide by Lithiothermic Reduction. <i>ACS Applied Materials &amp; Dioxide Materials &amp; Dioxid</i>	9.5	12
30	Three-Dimensional-Percolated Ceramic Nanoparticles along Natural-Cellulose-Derived Hierarchical Networks for High Li Conductivity and Mechanical Strength. <i>Nano Letters</i> , <b>2020</b> , 20, 7397-7404	11.5	12

29	A versatile Rlick chemistryProute to size-restricted, robust, and functionalizable hydrophilic nanocrystals. <i>Small</i> , <b>2015</b> , 11, 1644-8	11	11
28	High-resolution combinatorial patterning of functional nanoparticles. <i>Nature Communications</i> , <b>2020</b> , 11, 6002	17.4	11
27	Sulfophobic and Vacancy Design Enables Self-Cleaning Electrodes for Efficient Desulfurization and Concurrent Hydrogen Evolution with Low Energy Consumption. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2101922	15.6	10
26	An interesting molecular-assembly of Eyclodextrin pipelines with embedded hydrophilic nickel maleonitriledithiolate. <i>Dalton Transactions</i> , <b>2011</b> , 40, 11788-94	4.3	9
25	Engineering Two-Dimensional Metal-Organic Framework on Molecular Basis for Fast Li Conduction. <i>Nano Letters</i> , <b>2021</b> , 21, 5805-5812	11.5	9
24	Patterned plasmonic gradient for high-precision biosensing using a smartphone reader. <i>Nanoscale</i> , <b>2019</b> , 11, 12471-12476	7.7	8
23	Confined growth of CdSe quantum dots in colloidal mesoporous silica for multifunctional nanostructures. <i>Science China Materials</i> , <b>2015</b> , 58, 481-489	7.1	8
22	New metallocene-bridged cyclodextrin dimer: A stable derivative of the antitumor drug titanocene dichloride and its potent cytotoxity against human breast cancer (MCF-7) cells. <i>Journal of Organometallic Chemistry</i> , <b>2006</b> , 691, 5895-5899	2.3	8
21	Self-Assembly of Perovskite CsPbBr3 Quantum Dots Driven by a Photo-Induced Alkynyl Homocoupling Reaction. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 17360-17366	3.6	7
20	Porous gold layer coated silver nanoplates with efficient antimicrobial activity. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2020</b> , 186, 110727	6	7
19	Self-Assembly of Perovskite CsPbBr Quantum Dots Driven by a Photo-Induced Alkynyl Homocoupling Reaction. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 17207-17213	16.4	6
18	Use of an intermediate solid-state electrode to enable efficient hydrogen production from dilute organic matter. <i>Nano Energy</i> , <b>2017</b> , 39, 499-505	17.1	6
17	An inclusion complex of Eyclodextrin with mnt anion (mnt = maleonitriledithiolate) studied by induced circular dichroism. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , <b>2008</b> , 61, 101-106		5
16	Scalable hierarchical lithiophilic engineering of metal foam enables stable lithium metal batteries. <i>Chemical Engineering Journal</i> , <b>2022</b> , 435, 134643	14.7	5
15	Deterministic Assembly of Single Sub-20[hm Functional Nanoparticles Using a Thermally Modified Template with a Scanning Nanoprobe. <i>Advanced Materials</i> , <b>2020</b> , 32, e2005979	24	5
14	Assembly of Colloidal Nanoparticles into Hollow Superstructures by Controlling Phase Separation in Emulsion Droplets. <i>Small Structures</i> , <b>2021</b> , 2, 2100005	8.7	4
13	Transferring Liquid Metal to form a Hybrid Solid Electrolyte via a Wettability-Tuning Technology for Lithium Metal Anodes <i>Advanced Materials</i> , <b>2022</b> , e2200181	24	4
12	Broadband enhancement of photoluminance from colloidal metal halide perovskite nanocrystals on plasmonic nanostructured surfaces. <i>Scientific Reports</i> , <b>2017</b> , 7, 14695	4.9	3

11	The Role of Polymer and Inorganic Coatings to Enhance Interparticle Connections Diagnosed by Techniques. <i>Nano Letters</i> , <b>2021</b> , 21, 1530-1537	11.5	3
10	Arbitrary Gold Nanoparticle Arrays Fabricated through AFM Nanoxerography and Interfacial Seeded Growth. <i>ACS Applied Materials &amp; Seeded Growth.</i> 11, 38347-38352	9.5	2
9	A di(thio-1,2-dicyane ethylenylthio)ethane-tethered Eyclodextrin dimer as a molecular carrier of ferrocene in DMF solution. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , <b>2007</b> , 59, 357-361	l	2
8	Lithiated Hybrid Polymer/Inorganic PAA/MnO2 Protection Layer for High-Performance Tin Oxide Alloy Anode. <i>ACS Applied Energy Materials</i> ,	6.1	2
7	Unexpected Coulomb Interactions in Nonpolar Solvent for Highly Efficient Nanoxerography of Perovskite Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 59-64	6.4	2
6	Decorating fiber nanotip with single perovskite quantum dot and other luminescent nanocrystals synthesized in oil-phase. <i>Nanotechnology</i> , <b>2017</b> , 28, 46LT02	3.4	1
5	Tailoring a nanostructured plasmonic absorber for high efficiency surface-assisted laser desorption/ionization. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 3424-3429	3.6	1
4	Automated pick-and-place of single nanoparticle using electrically controlled low-surface energy nanotweezer. <i>AIP Advances</i> , <b>2021</b> , 11, 035219	1.5	1
3	Synthesis of monodispersed VO2@Au core\(\text{gemishell submicroparticles}\) and their switchable optical properties. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 11669-11673	7.1	1
2	In-situ forming Sub-2 nm hydrous iron oxide particles in MOFs for deep-treatment and high anti-interference in arsenic removal. <i>Chemical Engineering Journal</i> , <b>2021</b> , 431, 133813	14.7	O
1	Atomic resolution in situ observation on photon-induced reshaping and phase transitions of CsPbBr3 nanocube and quantum dot. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 203103	3.4	