

# Selective Facet Reactivity during Cation Exchange in Ca

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Synthesis of PbS Nanorods and Other Ionic Nanocrystals of Complex Morphology by Sequential Cation Exchange Reactions. <i>Journal of the American Chemical Society</i> , 2009, 131, 16851-16857.	6.6	329
3	Hetero-Epitaxial Anion Exchange Yields Single-Crystalline Hollow Nanoparticles. <i>Journal of the American Chemical Society</i> , 2009, 131, 13943-13945.	6.6	221
4	Detection of MicroRNA by Fluorescence Amplification Based on Cation-Exchange in Nanocrystals. <i>Analytical Chemistry</i> , 2009, 81, 9723-9729.	3.2	78
5	Formation of Hollow Upconversion Rare-Earth Fluoride Nanospheres: Nanoscale Kirkendall Effect During Ion Exchange. <i>Chemistry of Materials</i> , 2009, 21, 5237-5243.	3.2	135
6	From Artificial Atoms to Nanocrystal Molecules: Preparation and Properties of More Complex Nanostructures. <i>Annual Review of Physical Chemistry</i> , 2010, 61, 369-389.	4.8	166
7	Exciton Dynamics in Cd <sub>2</sub> Ag <sub>2</sub> S Nanorods with Tunable Composition Probed by Ultrafast Transient Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2010, 114, 5879-5885.	1.5	50
8	Synthesis of Au <sup>2</sup> Cu <sub>2</sub> S Core <sup>2</sup> Shell Nanocrystals and Their Photocatalytic and Electrocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2010, 114, 22141-22146.	1.5	94
9	Synthesis of CdS <sup>2</sup> Au <sub>2</sub> S <sup>2</sup> Au hybrid dendritic nanostructures. <i>Materials Letters</i> , 2010, 64, 489-492.	1.3	8
11	Palladium Nanoparticle Catalyzed Conversion of Iron Nanoparticles into Diameter <sup>2</sup> and Length <sup>2</sup> Controlled Fe <sub>2</sub> P Nanorods. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5712-5716.	7.2	14
12	Colloidal heterostructured nanocrystals: Synthesis and growth mechanisms. <i>Nano Today</i> , 2010, 5, 449-493.	6.2	628
13	Hybrid nanoscale inorganic cages. <i>Nature Materials</i> , 2010, 9, 810-815.	13.3	129
14	Selective detection of trace amount of Cu <sup>2+</sup> using semiconductor nanoparticles in photoelectrochemical analysis. <i>Nanoscale</i> , 2010, 2, 1112.	2.8	119
15	Size controlled gold tip growth onto II <sup>2</sup> VI nanorods. <i>Journal of Materials Chemistry</i> , 2010, 20, 7875.	6.7	38
16	Growth <sup>2</sup> regime <sup>2</sup> controlled synthesis of CdS <sup>2</sup> Bi <sub>2</sub> S <sub>3</sub> and Bi <sub>2</sub> S <sub>3</sub> nanocrystals during the dissolution <sup>2</sup> recrystallization processes. <i>CrystEngComm</i> , 2010, 12, 3413.	1.3	14
17	Synthesis, Morphological Control, and Antibacterial Properties of Hollow/Solid Ag <sub>2</sub> S/Ag Heterodimers. <i>Journal of the American Chemical Society</i> , 2010, 132, 10771-10785.	6.6	334
18	Nanoheterostructure Cation Exchange: Anionic Framework Conservation. <i>Journal of the American Chemical Society</i> , 2010, 132, 9997-9999.	6.6	253
19	Strain-Induced Band Gap Modification in Coherent Core/Shell Nanostructures. <i>Nano Letters</i> , 2010, 10, 3156-3162.	4.5	101
20	Internal Structure of InP/ZnS Nanocrystals Unraveled by High-Resolution Soft X-ray Photoelectron Spectroscopy. <i>ACS Nano</i> , 2010, 4, 4799-4805.	7.3	93

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21	Ultrasensitive Copper(II) Detection Using Plasmon-Enhanced and Photo-Brightened Luminescence of CdSe Quantum Dots. <i>Analytical Chemistry</i> , 2010, 82, 3671-3678.	3.2	259
22	Three Synthetic Routes to Single-Crystalline PbS Nanowires with Controlled Growth Direction and Their Electrical Transport Properties. <i>ACS Nano</i> , 2010, 4, 2391-2401.	7.3	50
23	Colloidal PbTe Aunanocrystal heterostructures. <i>Journal of Materials Chemistry</i> , 2010, 20, 1357-1366.	6.7	46
24	Direct measurement of the built-in potential in a nanoscale heterostructure. <i>Physical Review B</i> , 2010, 82, .	1.1	7
25	The structural evolution and diffusion during the chemical transformation from cobalt to cobalt phosphide nanoparticles. <i>Journal of Materials Chemistry</i> , 2011, 21, 11498.	6.7	136
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28	The room-temperature structural and optical transformation of cadmium chalcogenide quantum dots triggered by reactive cations. <i>Journal of Materials Chemistry</i> , 2011, 21, 11592.	6.7	17
29	One-Pot Synthesis of Cu <sub>1.94</sub> S <sup>~</sup> CdS and Cu <sub>1.94</sub> S <sup>~</sup> Zn <sub>x</sub> /Cd <sub>1-x</sub> S Nanodisk Heterostructures. <i>Journal of the American Chemical Society</i> , 2011, 133, 2052-2055.	6.6	103
30	Synthesis and properties of colloidal heteronanocrystals. <i>Chemical Society Reviews</i> , 2011, 40, 1512-1546.	18.7	611
31	Cation Exchange Reactions in Colloidal Branched Nanocrystals. <i>ACS Nano</i> , 2011, 5, 7176-7183.	7.3	110
32	A facile spin-cast route for cation exchange of multilayer perpendicularly-aligned nanorod assemblies. <i>Nanoscale</i> , 2011, 3, 4580.	2.8	35
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34	Solution-phase synthesis of metal and/or semiconductor homojunction/heterojunction nanomaterials. <i>Nanoscale</i> , 2011, 3, 2099.	2.8	70
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36	Expanding the One-Dimensional Cd <sup>~</sup> CdSe Composition Landscape: Axially Anisotropic CdS <sub>1-x</sub> Se <sub>x</sub> Nanorods. <i>ACS Nano</i> , 2011, 5, 5775-5784.	7.3	49
37	Copper(ii) and iron(ii) ion sensing with semiconducting polymer dots. <i>Chemical Communications</i> , 2011, 47, 2820.	2.2	160
38	Assembled Monolayer Nanorod Heterojunctions. <i>ACS Nano</i> , 2011, 5, 3811-3816.	7.3	109

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39	The Room-Temperature Synthesis of Anisotropic CdHgTe Quantum Dot Alloys: A "Molecular Welding" Effect. <i>Journal of the American Chemical Society</i> , 2011, 133, 3328-3331.	6.6	28
40	Size Dependence of a Temperature-Induced Solid-Solid Phase Transition in Copper(I) Sulfide. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2402-2406.	2.1	111
41	Tracking Surface Evolution Using Ligand-Assisted Dissolution of Cobalt Oxyhydroxide. <i>Langmuir</i> , 2011, 27, 158-165.	1.6	3
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47	Heteroepitaxial Growth of Colloidal Nanocrystals onto Substrate Films via Hot-Injection Routes. <i>ACS Nano</i> , 2011, 5, 4953-4964.	7.3	32
48	Plasmon Dynamics in Colloidal Cu <sub>2</sub> Se Nanocrystals. <i>Nano Letters</i> , 2011, 11, 4711-4717.	4.5	158
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55	Solution-processed core-shell nanowires for efficient photovoltaic cells. <i>Nature Nanotechnology</i> , 2011, 6, 568-572.	15.6	492
56	Microwave-assisted hydrothermal synthesis of biocompatible silver sulfide nanoworms. <i>Journal of Nanoparticle Research</i> , 2011, 13, 4847-4854.	0.8	17

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57	Cu <sub>2</sub> S nanowires and MnS/Cu <sub>2</sub> S nanojunctions derived from <sup>13</sup> C-MnS nanowires via selective cation exchange reaction. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011, 208, 123-128.	0.8	4
58	Luminescence of Polyethylene Glycol Coated CdSeTe/ZnS and InP/ZnS Nanoparticles in the Presence of Copper Cations. <i>ChemPhysChem</i> , 2011, 12, 2247-2254.	1.0	24
60	Synthesis and Photocatalytic Properties of a Family of CdS@PdX Hybrid Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1185-1189.	7.2	119
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62	Chemical transformations of nanostructured materials. <i>Nano Today</i> , 2011, 6, 186-203.	6.2	230
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64	Fabrication and Characterization of Dielectric Nanocube Self-Assembled Structures. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 09LC03.	0.8	8
65	Quantum Dot Impregnated-Chitosan Film for Heavy Metal Ion Sensing and Removal. <i>Langmuir</i> , 2012, 28, 15687-15696.	1.6	100
66	Ion Exchange Synthesis of III-V Nanocrystals. <i>Journal of the American Chemical Society</i> , 2012, 134, 19977-19980.	6.6	137
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68	Selective growth of metal sulfide tips onto cadmium chalcogenide nanostructures. <i>CrystEngComm</i> , 2012, 14, 7590.	1.3	17
69	Simplifying the growth of hybrid single-crystals by using nanoparticle precursors: the case of AgI. <i>Nanoscale</i> , 2012, 4, 2713.	2.8	13
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71	Aqueous-Phase Reactions on Hollow Silica-Encapsulated Semiconductor Nanoheterostructures. <i>Journal of the American Chemical Society</i> , 2012, 134, 8754-8757.	6.6	37
72	Colloidal Cu <sub>2-x</sub> (SySe <sub>1-y</sub> ) alloy nanocrystals with controllable crystal phase: synthesis, plasmonic properties, cation exchange and electrochemical lithiation. <i>Journal of Materials Chemistry</i> , 2012, 22, 13023.	6.7	70
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76	Anisotropic Cation Exchange in PbSe/CdSe Core/Shell Nanocrystals of Different Geometry. <i>Chemistry of Materials</i> , 2012, 24, 294-302.	3.2	144
77	Development of plasmonic semiconductor nanomaterials with copper chalcogenides for a future with sustainable energy materials. <i>Energy and Environmental Science</i> , 2012, 5, 5564-5576.	15.6	334
78	Enhanced Cu <sub>2</sub> S/CdS Coaxial Nanowire Solar Cells by Piezo-Phototronic Effect. <i>Nano Letters</i> , 2012, 12, 3302-3307.	4.5	174
85	Synthesis of Hollow Cd <sub>x</sub> Zn <sub>1-x</sub> Se Nanoframes through the Selective Cation Exchange of Inorganic/Organic Hybrid ZnSe/Amine Nanoflakes with Cadmium Ions. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3211-3215.	7.2	109
86	Macroscale Ordered Ultrathin Telluride Nanowire Films, and Tellurium/Telluride Hetero-Nanowire Films. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7420-7425.	7.2	84
87	One-Pot Controlled Synthesis of Hexagonal-Prismatic Cu <sub>1.94</sub> ZnS, Cu <sub>1.94</sub> ZnS@Cu <sub>1.94</sub> S, and Cu <sub>1.94</sub> ZnS@Cu <sub>1.94</sub> S@ZnS@Cu <sub>1.94</sub> S Heteronanostructures. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6365-6368.	7.2	70
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91	Size and Shape Control of Colloidal Copper(I) Sulfide Nanorods. <i>ACS Nano</i> , 2012, 6, 5889-5896.	7.3	129
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98	Cation Exchange: A Versatile Tool for Nanomaterials Synthesis. <i>Journal of Physical Chemistry C</i> , 2013, 117, 19759-19770.	1.5	402
99	Tailoring ZnSe/CdSe Colloidal Quantum Dots via Cation Exchange: From Core/Shell to Alloy Nanocrystals. <i>ACS Nano</i> , 2013, 7, 7913-7930.	7.3	161

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100	Synthesis of Highly Luminescent Silica-Coated CdSe/CdS Nanorods. <i>Chemistry of Materials</i> , 2013, 25, 3427-3434.	3.2	49
101	Influence of sulphide precursor on crystal phase of ternary III-VI <sub>2</sub> semiconductors. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	8
102	Interpreting the Energy-Dependent Anisotropy of Colloidal Nanorods Using Ensemble and Single-Particle Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 23928-23937.	1.5	28
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104	Synthesis of Highly Luminescent and Photo-Stable, Graded Shell CdSe/Cd <sub>x</sub> Zn <sub>1-x</sub> S Nanoparticles by In Situ Alloying. <i>Chemistry of Materials</i> , 2013, 25, 4731-4738.	3.2	167
105	25th Anniversary Article: Ion Exchange in Colloidal Nanocrystals. <i>Advanced Materials</i> , 2013, 25, 6923-6944.	11.1	170
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110	Cation exchange on the nanoscale: an emerging technique for new material synthesis, device fabrication, and chemical sensing. <i>Chemical Society Reviews</i> , 2013, 42, 89-96.	18.7	443
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112	All Change for Nanocrystals. <i>Science</i> , 2013, 340, 935-936.	6.0	36
113	Controlling electron beam-induced structure modifications and cation exchange in cadmium sulfide-copper sulfide heterostructured nanorods. <i>Ultramicroscopy</i> , 2013, 134, 207-213.	0.8	13
114	Selective Growth of Dual-Color-Emitting Heterogeneous Microdumbbells Composed of Organic Charge-Transfer Complexes. <i>Journal of the American Chemical Society</i> , 2013, 135, 3744-3747.	6.6	121
115	Narrow bandgap colloidal metal chalcogenide quantum dots: synthetic methods, heterostructures, assemblies, electronic and infrared optical properties. <i>Chemical Society Reviews</i> , 2013, 42, 3033.	18.7	374
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119	Emerging Strategies for the Total Synthesis of Inorganic Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6154-6178.	7.2	184
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121	Semiconducting and Plasmonic Copper Phosphide Platelets. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6762-6766.	7.2	90
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124	Type-II nanorod heterostructure formation through one-step cation exchange. <i>Nanoscale</i> , 2013, 5, 363-368.	2.8	49
125	A Postsynthetic Modification of II-VI Semiconductor Nanoparticles to Create $\text{Tb}^{3+}$ and $\text{Eu}^{3+}$ Luminophores. <i>Journal of Physical Chemistry C</i> , 2013, 117, 14451-14460.	1.5	52
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127	Conversion of CuO Nanoplates into Porous Hybrid $\text{Cu}_2\text{O}$ /Polypyrrole Nanoflakes through a Pyrrole-Induced Reductive Transformation Reaction. <i>Chemistry - an Asian Journal</i> , 2013, 8, 1120-1127.	1.7	23
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129	The Oxidation of Cobalt Nanoparticles into Kirkendall-Hollowed $\text{Co}_3\text{O}_4$ and $\text{Co}_2\text{O}_3$ : The Diffusion Mechanisms and Atomic Structural Transformations. <i>Journal of Physical Chemistry C</i> , 2013, 117, 14303-14312.	1.5	128
130	Colloidal $\text{CdSe/Cu}_3\text{P/CdSe}$ Nanocrystal Heterostructures and Their Evolution upon Thermal Annealing. <i>ACS Nano</i> , 2013, 7, 3997-4005.	7.3	36
131	Shedding Light on Vacancy-Doped Copper Chalcogenides: Shape-Controlled Synthesis, Optical Properties, and Modeling of Copper Telluride Nanocrystals with Near-Infrared Plasmon Resonances. <i>ACS Nano</i> , 2013, 7, 4367-4377.	7.3	186
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133	Templated synthesis of nanostructured materials. <i>Chemical Society Reviews</i> , 2013, 42, 2610-2653.	18.7	806
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142	Phase-Selective Cation-Exchange Chemistry in Sulfide Nanowire Systems. <i>Journal of the American Chemical Society</i> , 2014, 136, 17430-17433.	6.6	78
143	Formation of Mesoporous Heterostructured BiVO <sub>4</sub> /Bi <sub>2</sub> S <sub>3</sub> Hollow Discoids with Enhanced Photoactivity. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5917-5921.	7.2	269
144	CoNi <sub>2</sub> S <sub>4</sub> Nanosheet Arrays Supported on Nickel Foams with Ultrahigh Capacitance for Aqueous Asymmetric Supercapacitor Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 19318-19326.	4.0	469
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147	Preparation of HgS Nanoparticles with Adjustable Dispersibility at Water/n-butyl Alcohol Interface. <i>Advanced Materials Research</i> , 2014, 881-883, 994-997.	0.3	0
148	Fabrication of Cu <sub>2</sub> S nanoneedles by self-assembly of nanoparticles via simple wet chemical route. <i>Journal of Alloys and Compounds</i> , 2014, 589, 67-75.	2.8	10
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