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Solution Synthesis and Optical Properties of Transition-Metal-Doped Silicon Nanocrystals

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#	Paper	IF	Citations
24	Phosphorus-Rich Copper Phosphide Nanowires for Field-Effect Transistors and Lithium-Ion Batteries. <i>ACS Nano</i> , 2016 , 10, 8632-44	16.7	63
23	Electronic Structure of Neutral and Anionic Scandium Disilicon ScSi Clusters and the Related Anion Photoelectron Spectrum. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 9401-9410	2.8	9
22	Doping silicon nanocrystals and quantum dots. <i>Nanoscale</i> , 2016 , 8, 1733-45	7.7	58
21	Solution Synthesis, Surface Passivation, Optical Properties, Biomedical Applications, and Cytotoxicity of Silicon and Germanium Nanocrystals. <i>ChemPlusChem</i> , 2017 , 82, 60-73	2.8	36
20	Transition-Metal-Doped NIR-Emitting Silicon Nanocrystals. <i>Angewandte Chemie</i> , 2017 , 129, 6253-6256	3.6	0
19	Transition-Metal-Doped NIR-Emitting Silicon Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 6157-6160	16.4	31
18	Synthesis of Water-Dispersible Mn Functionalized Silicon Nanoparticles under Room Temperature and Atmospheric Pressure for Fluorescence and Magnetic Resonance Dual-Modality Imaging. <i>Analytical Chemistry</i> , 2017 , 89, 11286-11292	7.8	31
17	A comparative study of transport properties of copper doped cadmium selenide thin films at two dopant concentrations. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 9596-9604	2.1	14
16	One-Step Synthesis of Ultrasmall and Ultrabright Organosilica Nanodots with 100% Photoluminescence Quantum Yield: Long-Term Lysosome Imaging in Living, Fixed, and Permeabilized Cells. <i>Nano Letters</i> , 2018 , 18, 1159-1167	11.5	83
15	One-pot hydrothermal preparation of gadolinium-doped silicon nanoparticles as a dual-modal probe for multicolor fluorescence and magnetic resonance imaging. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 3358-3365	7.3	21
14	Chemical Reduction Synthesis and Electrochemistry of Si-Sn Nanocomposites as High-Capacity Anodes for Li-Ion Batteries. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 5130-5134	6.4	12
13	Synthesis, optical properties and theoretical modelling of discrete emitting states in doped silicon nanocrystals for bioimaging. <i>Nanoscale</i> , 2018 , 10, 15600-15607	7.7	10
12	Silicon nanocrystals: unfading silicon materials for optoelectronics. <i>Materials Science and Engineering Reports</i> , 2019 , 138, 85-117	30.9	41
11	Synthesis and growth mechanism of Mn-doped nanodot embedded silica nanowires. <i>Physica B: Condensed Matter</i> , 2019 , 571, 10-17	2.8	1
10	The structure and property characteristics of Mn-doped SiGe alloy nanowires prepared by catalyst-free growth. <i>Physica B: Condensed Matter</i> , 2019 , 575, 411696	2.8	0
9	Fluorescent silicon nanomaterials: from synthesis to functionalization and application. <i>Nano Today</i> , 2019 , 26, 149-163	17.9	35
8	Tunable Conductivity of Germanium Thin Films Fabricated via Doped Colloidal Nanoparticle Sintering. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 1477-1482	3.8	6

7	Photophysical properties of ball milled silicon nanostructures. <i>Faraday Discussions</i> , 2020 , 222, 96-107	3.6	4
6	Metastable Group IV Allotropes and Solid Solutions: Nanoparticles and Nanowires. <i>Chemistry of Materials</i> , 2020 , 32, 2703-2741	9.6	16
5	"Turning the dials": controlling synthesis, structure, composition, and surface chemistry to tailor silicon nanoparticle properties. <i>Nanoscale</i> , 2021 , 13, 16379-16404	7.7	2
4	Silicon nanocrystals doped with boron and phosphorous. <i>Series in Materials Science and Engineering</i> , 2017 , 341-366		
3	CHAPTER 19. Optimal Silicon-based Nanomaterials for Biological Applications. <i>RSC Nanoscience and Nanotechnology</i> , 2022 , 442-467		
2	Solution-Processed, Inverted AgBiS Nanocrystal Solar Cells.. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	2
1	Recent Updates on Functionalized Silicon Quantum-Dot-Based Nanoagents for Biomedical Applications. 2023 , 5, 985-1008		0