Pavle V Radovanovic

List of Publications by Year
in descending order

60 papers	2,989 citations	172457 29 h-index	161849 54 g-index
61 all docs	61 docs citations	61 times ranked	3840 citing authors

#	Article	IF	Citations
1	High-Temperature Ferromagnetism inNi2+-Doped ZnO Aggregates Prepared from Colloidal Diluted Magnetic Semiconductor Quantum Dots. Physical Review Letters, 2003, 91, 157202.	7.8	416
2	General Synthesis of Manganese-Doped IIâˆ’VI and IIIâˆ’V Semiconductor Nanowires. Nano Letters, 2005, 5, 1407-1411.	9.1	224
3	Advances in spinel Li₄Ti₅O₁₂anode materials for lithium-ion batteries. New Journal of Chemistry, 2015, 39, 38-63.	2.8	207
4	Colloidal Transition-Metal-Doped ZnO Quantum Dots. Journal of the American Chemical Society, 2002, 124, 15192-15193.	13.7	181
5	Electronic Absorption Spectroscopy of Cobalt Ions in Diluted Magnetic Semiconductor Quantum Dots:Â Demonstration of an Isocrystalline Core/Shell Synthetic Method. Journal of the American Chemical Society, 2001, 123, 12207-12214.	13.7	153
6	Size-Tunable Phosphorescence in Colloidal Metastable Î³-Ga₂O₃ Nanocrystals. Journal of the American Chemical Society, 2010, 132, 9250-9252.	13.7	130
7	Low-Temperature Activation and Deactivation of High-Curie-Temperature Ferromagnetism in a New Diluted Magnetic Semiconductor:Â Ni2+-Doped SnO2. Journal of the American Chemical Society, 2005, 127, 14479-14487.	13.7	116
8	Free Electron Concentration in Colloidal Indium Tin Oxide Nanocrystals Determined by Their Size and Structure. Journal of Physical Chemistry C, 2011, 115, 406-413.	3.1	103
9	Colloidal Gallium Indium Oxide Nanocrystals: A Multifunctional Light-Emitting Phosphor Broadly Tunable by Alloy Composition. Journal of the American Chemical Society, 2011, 133, 6711-6719.	13.7	79
10	Phase-Controlled Synthesis of Colloidal In₂O₃ Nanocrystals via Size-Structure Correlation. Chemistry of Materials, 2010, 22, 9-11.	6.7	78
11	Dopant-Induced Manipulation of the Growth and Structural Metastability of Colloidal Indium Oxide Nanocrystals. Journal of Physical Chemistry C, 2009, 113, 15928-15933.	3.1	69
12	Plasmon-induced carrier polarization in semiconductor nanocrystals. Nature Nanotechnology, 2018, 13, 463-467.	31.5	60
13	Generating Tunable White Light by Resonance Energy Transfer in Transparent Dye-Conjugated Metal Oxide Nanocrystals. Journal of the American Chemical Society, 2013, 135, 14520-14523.	13.7	59
14	Interplay between Size, Composition, and Phase Transition of Nanocrystalline Cr³⁺-Doped BaTiO₃ as a Path to Multiferroism in Perovskite-Type Oxides. Journal of the American Chemical Society, 2012, 134, 1136-1146.	13.7	58
15	General Control of Transition-Metal-Doped GaN Nanowire Growth: Toward Understanding the Mechanism of Dopant Incorporation. Nano Letters, 2008, 8, 2674-2681.	9.1	56
16	In situ enhancement of the blue photoluminescence of colloidal Ga2O3 nanocrystals by promotion of defect formation in reducing conditions. Chemical Communications, 2011, 47, 7161.	4.1	53
17	Evidence of Charge-Transfer Ferromagnetism in Transparent Diluted Magnetic Oxide Nanocrystals: Switching the Mechanism of Magnetic Interactions. Journal of the American Chemical Society, 2014, 136, 7669-7679.	13.7	52
18	Tuning Plasmon Resonance of In₂O₃ Nanocrystals throughout the Mid-Infrared Region by Competition between Electron Activation and Trapping. Chemistry of Materials, 2017, 29, 4970-4979.	6.7	51

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19	Size-Dependent Electron Transfer and Trapping in Strongly Luminescent Colloidal Gallium Oxide Nanocrystals. Journal of Physical Chemistry C, 2011, 115, 18473-18478.	3.1	50
20	Phase Transformation of Colloidal In₂O₃ Nanocrystals Driven by the Interface Nucleation Mechanism: A Kinetic Study. Journal of the American Chemical Society, 2012, 134, 7015-7024.	13.7	49
21	Colloidal Chromium-Doped In2O3 Nanocrystals as Building Blocks for High-TC Ferromagnetic Transparent Conducting Oxide Structures. Journal of Physical Chemistry C, 2008, 112, 17755-17759.	3.1	46
22	Influence of the Host Lattice Electronic Structure on Dilute Magnetic Interactions in Polymorphic Cr(III)-Doped In₂O₃ Nanocrystals. Chemistry of Materials, 2013, 25, 233-244.	6.7	43
23	Origin of size-dependent photoluminescence decay dynamics in colloidal Î³-Ga2O3 nanocrystals. Applied Physics Letters, 2012, 100, .	3.3	42
24	Electronic structure and magnetic properties of sub-3â€‰nm diameter Mn-doped SnO2 nanocrystals and nanowires. Applied Physics Letters, 2013, 103, .	3.3	41
25	Dual Europium Luminescence Centers in Colloidal Ga₂O₃ Nanocrystals: Controlled <i>in Situ</i> Reduction of Eu(III) and Stabilization of Eu(II). Chemistry of Materials, 2015, 27, 6030-6037.	6.7	39
26	Hybrid ZnO-Based Nanoconjugate for Efficient and Sustainable White Light Generation. Chemistry of Materials, 2015, 27, 1021-1030.	6.7	39
27	Probing the Role of Dopant Oxidation State in the Magnetism of Diluted Magnetic Oxides Using Fe-Doped In₂O₃ and SnO₂ Nanocrystals. Journal of Physical Chemistry C, 2017, 121, 1918-1927.	3.1	38
28	Anomalous Photocatalytic Activity of Nanocrystalline Î³-Phase Ga₂O₃ Enabled by Long-Lived Defect Trap States. Journal of Physical Chemistry C, 2017, 121, 9433-9441.	3.1	36
29	Correlation between native defects and dopants in colloidal lanthanide-doped Ga2O3nanocrystals: a path to enhance functionality and control optical properties. Journal of Materials Chemistry C, 2014, 2, 3212-3222.	5.5	30
30	Dopant Ion Concentration Dependence of Growth and Faceting of Manganese-Doped GaN Nanowires. Journal of the American Chemical Society, 2007, 129, 10980-10981.	13.7	29
31	Evolution of the faceting, morphology and aspect ratio of gallium oxide nanowires grown by vaporâ€“solid deposition. Journal of Crystal Growth, 2014, 396, 24-32.	1.5	29
32	Tuning Manganese Dopant Spin Interactions in Single GaN Nanowires at Room Temperature. ACS Nano, 2011, 5, 6365-6373.	14.6	28
33	Selective oxidation of alcohols by using CoFe₂O₄/Ag₂MoO₄as a visible-light-driven heterogeneous photocatalyst. New Journal of Chemistry, 2020, 44, 2858-2867.	2.8	28
34	Electronic structure and magnetism of Mn dopants in GaN nanowires: Ensemble vs single nanowire measurements. Applied Physics Letters, 2011, 99, 222504.	3.3	24
35	Controlling the Mechanism of Phase Transformation of Colloidal In₂O₃ Nanocrystals. Journal of the American Chemical Society, 2015, 137, 1101-1108.	13.7	22
36	Controlling the Mechanism of Excitonic Splitting in In2O3 Nanocrystals by Carrier Delocalization. ACS Nano, 2018, 12, 11211-11218.	14.6	20

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37	Turning Weakly Luminescent SnO₂ Nanocrystals into Tunable and Efficient Light Emitters by Aliovalent Alloying. Chemistry of Materials, 2018, 30, 3578-3587.	6.7	14
38	Faceting-Controlled Zeeman Splitting in Plasmonic TiO₂ Nanocrystals. Nano Letters, 2019, 19, 6695-6702.	9.1	14
39	Novel CoFe₂O₄/CuBi₂O₄ heterojunction pâ€“n semiconductor as visibleâ€lightâ€driven nanophotocatalyst for C (OH)â€“H bond activation. Applied Organometallic Chemistry, 2022, 36, .	3.5	14
40	Distance-Dependent Energy Transfer between Ga2O3 Nanocrystal Defect States and Conjugated Organic Fluorophores in Hybrid White-Light-Emitting Nanophosphors. Journal of Physical Chemistry C, 2015, 119, 5687-5696.	3.1	13
41	Surface-Enabled Energy Transfer in Ga₂O₃â€“CdSe/CdS Nanocrystal Composite Films: Tunable All-Inorganic Rare Earth Element-Free White-Emitting Phosphor. Journal of Physical Chemistry C, 2016, 120, 19566-19573.	3.1	12
42	Photoluminescence decay dynamics in Î³-Ga2O3 nanocrystals: The role of exclusion distance at short time scales. Chemical Physics Letters, 2017, 684, 135-140.	2.6	12
43	Magnetoplasmon Resonances in Semiconductor Nanocrystals: Potential for a New Information Technology Platform. ChemSusChem, 2020, 13, 4885-4893.	6.8	12
44	Keeping track of dopants. Nature Nanotechnology, 2009, 4, 282-283.	31.5	11
45	Molecular Origin of Valence Band Anisotropy in Single Î²-Ga₂O₃ Nanowires Investigated by Polarized X-ray Absorption Imaging. Journal of Physical Chemistry C, 2015, 119, 17450-17457.	3.1	11
46	Compositional control of the photocatalytic activity of Ga2O3 nanocrystals enabled by defect-induced carrier trapping. Chemical Physics Letters, 2018, 706, 509-514.	2.6	10
47	Effect of Dopant Activation and Plasmon Damping on Carrier Polarization in In₂O₃ Nanocrystals. Journal of Physical Chemistry C, 2019, 123, 29829-29837.	3.1	10
48	A porphyrin-conjugated TiO₂/CoFe₂O₄ nanostructure photocatalyst for the selective production of aldehydes under visible light. New Journal of Chemistry, 2021, 45, 8032-8044.	2.8	9
49	Profiling of Unsaturated Lipids by Raman Spectroscopy Directly on Solid-Phase Microextraction Probes. Analytical Chemistry, 2022, 94, 606-611.	6.5	9
50	Energy Transfer between Conjugated Colloidal Ga2O3 and CdSe/CdS Core/Shell Nanocrystals for White Light Emitting Applications. Nanomaterials, 2016, 6, 32.	4.1	8
51	Native defects determine phase-dependent photoluminescence behavior of Eu2+ and Eu3+ in In2O3 nanocrystals. Chemical Communications, 2016, 52, 4353-4356.	4.1	8
52	Extending Afterglow of Ga2O3 Nanocrystals by Dy3+ Dopant-Induced Carrier Trapping: Toward Design of Persistent Colloidal Nanophosphors. Chemistry of Materials, 2020, 32, 7516-7523.	6.7	8
53	Synergistic Effect of the Electronic Structure and Defect Formation Enhances Photocatalytic Efficiency of Gallium Tin Oxide Nanocrystals. Journal of Physical Chemistry C, 2019, 123, 433-442.	3.1	7
54	Inorganic Phosphors for Teaching a Holistic Approach to Functional Materials Investigation: From Synthesis and Characterization to Applications of Thermo- and Mechanoluminescence. Journal of Chemical Education, 2019, 96, 1008-1014.	2.3	6

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55	Properties of Free Charge Carriers Govern Exciton Polarization in Plasmonic Semiconductor Nanocrystals. Journal of Physical Chemistry Letters, 2022, 13, 5545-5552.	4.6	5
56	Control of the spontaneous formation of oxide overlayers on GaP nanowires grown by physical vapor deposition. AIMS Materials Science, 2018, 5, 105-115.	1.4	4
57	Defects and impurities in colloidal Ga2O3 nanocrystals: new opportunities for photonics and lighting. Canadian Journal of Chemistry, 2022, 100, 1-8.	1.1	4
58	On the Origin of d0 Magnetism in Transparent Metal Oxide Nanocrystals. Journal of Physical Chemistry C, 2021, 125, 27714-27722.	3.1	4
59	Controlling Carrier Polarization in Plasmonic Semiconductor Nanocrystals. , 2020, , .		0
60	(Invited) Manipulating Carrier Polarization in Semiconductor Nanocrystals. ECS Transactions, 2020, 98, 77-86.	0.5	0