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	Defects and impurities in colloidal Ga2O3 nanocrystals: new opportunities for photonics and lighting. Canadian Journal of Chemistry, 2022, 100, 1-8.	1.1	4
2	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
3	Profiling of Unsaturated Lipids by Raman Spectroscopy Directly on Solid-Phase Microextraction Probes. Analytical Chemistry, 2022, 94, 606-611.	6.5	9
4	Properties of Free Charge Carriers Govern Exciton Polarization in Plasmonic Semiconductor Nanocrystals. Journal of Physical Chemistry Letters, 2022, 13, 5545-5552.	4.6	5
5	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
6	On the Origin of d0 Magnetism in Transparent Metal Oxide Nanocrystals. Journal of Physical Chemistry C, 2021, 125, 27714-27722.	3.1	4
7	Magnetoplasmon Resonances in Semiconductor Nanocrystals: Potential for a New Information Technology Platform. ChemSusChem, 2020, 13, 4885-4893.	6.8	12
8	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
9	Controlling Carrier Polarization in Plasmonic Semiconductor Nanocrystals. , 2020, , .		0
10	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
11	(Invited) Manipulating Carrier Polarization in Semiconductor Nanocrystals. ECS Transactions, 2020, 98, 77-86.	0.5	0
12	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
13	Faceting-Controlled Zeeman Splitting in Plasmonic TiO₂ Nanocrystals. Nano Letters, 2019, 19, 6695-6702.	9.1	14
14	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
15	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
16	Turning Weakly Luminescent SnO₂ Nanocrystals into Tunable and Efficient Light Emitters by Aliovalent Alloying. Chemistry of Materials, 2018, 30, 3578-3587.	6.7	14
17	Plasmon-induced carrier polarization in semiconductor nanocrystals. Nature Nanotechnology, 2018, 13, 463-467.	31.5	60
18	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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19	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
20	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
21	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
22	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
23	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
24	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
25	Energy Transfer between Conjugated Colloidal Ga2O3 and CdSe/CdS Core/Shell Nanocrystals for White Light Emitting Applications. Nanomaterials, 2016, 6, 32.	4.1	8
26	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
27	Native defects determine phase-dependent photoluminescence behavior of Eu2+ and Eu3+ in In2O3 nanocrystals. Chemical Communications, 2016, 52, 4353-4356.	4.1	8
28	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
29	Controlling the Mechanism of Phase Transformation of Colloidal In₂O₃ Nanocrystals. Journal of the American Chemical Society, 2015, 137, 1101-1108.	13.7	22
30	Hybrid ZnO-Based Nanoconjugate for Efficient and Sustainable White Light Generation. Chemistry of Materials, 2015, 27, 1021-1030.	6.7	39
31	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
32	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
33	Advances in spinel Li₄Ti₅O₁₂anode materials for lithium-ion batteries. New Journal of Chemistry, 2015, 39, 38-63.	2.8	207
34	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
35	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
36	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

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37	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
38	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
39	Electronic structure and magnetic properties of sub-3â€‰nm diameter Mn-doped SnO2 nanocrystals and nanowires. Applied Physics Letters, 2013, 103, .	3.3	41
40	Origin of size-dependent photoluminescence decay dynamics in colloidal Î³-Ga2O3 nanocrystals. Applied Physics Letters, 2012, 100, .	3.3	42
41	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
42	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
43	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
44	Electronic structure and magnetism of Mn dopants in GaN nanowires: Ensemble vs single nanowire measurements. Applied Physics Letters, 2011, 99, 222504.	3.3	24
45	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
46	Tuning Manganese Dopant Spin Interactions in Single GaN Nanowires at Room Temperature. ACS Nano, 2011, 5, 6365-6373.	14.6	28
47	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
48	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
49	Size-Tunable Phosphorescence in Colloidal Metastable Î³-Ga₂O₃ Nanocrystals. Journal of the American Chemical Society, 2010, 132, 9250-9252.	13.7	130
50	Phase-Controlled Synthesis of Colloidal In₂O₃ Nanocrystals via Size-Structure Correlation. Chemistry of Materials, 2010, 22, 9-11.	6.7	78
51	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
52	Keeping track of dopants. Nature Nanotechnology, 2009, 4, 282-283.	31.5	11
53	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
54	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

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55	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
56	General Synthesis of Manganese-Doped IIâ˘'VI and IIIâ˘'V Semiconductor Nanowires. Nano Letters, 2005, 5, 1407-1411.	9.1	224
57	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
58	High-Temperature Ferromagnetism inNi2+-Doped ZnO Aggregates Prepared from Colloidal Diluted Magnetic Semiconductor Quantum Dots. Physical Review Letters, 2003, 91, 157202.	7.8	416
59	Colloidal Transition-Metal-Doped ZnO Quantum Dots. Journal of the American Chemical Society, 2002, 124, 15192-15193.	13.7	181
60	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