Istvan Robel

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7055599/publications.pdf

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28 papers

6,861 citations

304602 22 h-index 501076 28 g-index

28 all docs 28 docs citations

28 times ranked

9327 citing authors

#	Article	IF	CITATIONS
1	Hot-electron dynamics in quantum dots manipulated by spin-exchange Auger interactions. Nature Nanotechnology, 2019, 14, 1035-1041.	15.6	31
2	Perspectives on Designer Photocathodes for X-ray Free-Electron Lasers: Influencing Emission Properties with Heterostructures and Nanoengineered Electronic States. Physical Review Applied, 2018, 10, .	1.5	36
3	Quantum Dot Thin-Films as Rugged, High-Performance Photocathodes. Nano Letters, 2017, 17, 2319-2327.	4.5	6
4	Auger Up-Conversion of Low-Intensity Infrared Light in Engineered Quantum Dots. ACS Nano, 2016, 10, 10829-10841.	7. 3	31
5	Mn ²⁺ -Doped Lead Halide Perovskite Nanocrystals with Dual-Color Emission Controlled by Halide Content. Journal of the American Chemical Society, 2016, 138, 14954-14961.	6.6	725
6	Phonon-assisted nonlinear optical processes in ultrashort-pulse pumped optical parametric amplifiers. Scientific Reports, 2016, 6, 23031.	1.6	2
7	Spectral and Dynamical Properties of Single Excitons, Biexcitons, and Trions in Cesium–Lead-Halide Perovskite Quantum Dots. Nano Letters, 2016, 16, 2349-2362.	4.5	533
8	Tuning the Redox Coupling between Quantum Dots and Dopamine in Hybrid Nanoscale Assemblies. Journal of Physical Chemistry C, 2015, 119, 3388-3399.	1.5	22
9	Temperature and Magnetic-Field Dependence of Radiative Decay in Colloidal Germanium Quantum Dots. Nano Letters, 2015, 15, 2685-2692.	4.5	10
10	Photocharging Artifacts in Measurements of Electron Transfer in Quantum-Dot-Sensitized Mesoporous Titania Films. Journal of Physical Chemistry Letters, 2014, 5, 111-118.	2.1	29
11	Enhanced carrier multiplication in engineered quasi-type-II quantum dots. Nature Communications, 2014, 5, 4148.	5.8	143
12	Controlling the influence of Auger recombination on the performance of quantum-dot light-emitting diodes. Nature Communications, 2013, 4, 2661.	5.8	605
13	Heavily doped n-type PbSe and PbS nanocrystals using ground-state charge transfer from cobaltocene. Scientific Reports, 2013, 3, 2004.	1.6	116
14	Controlled Alloying of the Core–Shell Interface in CdSe/CdS Quantum Dots for Suppression of Auger Recombination. ACS Nano, 2013, 7, 3411-3419.	7.3	417
15	Highâ€Sensitivity p–n Junction Photodiodes Based on PbS Nanocrystal Quantum Dots. Advanced Functional Materials, 2012, 22, 1741-1748.	7.8	139
16	Spectral Dependence of Nanocrystal Photoionization Probability: The Role of Hot-Carrier Transfer. ACS Nano, 2011, 5, 5045-5055.	7.3	74
17	Spectroscopic Signatures of Photocharging due to Hot-Carrier Transfer in Solutions of Semiconductor Nanocrystals under Low-Intensity Ultraviolet Excitation. ACS Nano, 2010, 4, 6087-6097.	7.3	87
18	Infrared-Active Heterostructured Nanocrystals with Ultralong Carrier Lifetimes. Journal of the American Chemical Society, 2010, 132, 9960-9962.	6.6	80

#	Article	IF	CITATIONS
19	Universal Size-Dependent Trend in Auger Recombination in Direct-Gap and Indirect-Gap Semiconductor Nanocrystals. Physical Review Letters, 2009, 102, 177404.	2.9	314
20	Thermal stability of two-dimensional gold nanocrystal superlattices. Journal of Physics Condensed Matter, 2009, 21, 264011.	0.7	9
21	Colloidal Synthesis of Infrared-Emitting Germanium Nanocrystals. Journal of the American Chemical Society, 2009, 131, 3436-3437.	6.6	137
22	Size-Dependent Electron Injection from Excited CdSe Quantum Dots into TiO2Nanoparticles. Journal of the American Chemical Society, 2007, 129, 4136-4137.	6.6	816
23	Structural changes and catalytic activity of platinum nanoparticles supported on C60 and carbon nanotube films during the operation of direct methanol fuel cells. Applied Physics Letters, 2006, 88, 073113.	1.5	21
24	Quantum Dot Solar Cells. Harvesting Light Energy with CdSe Nanocrystals Molecularly Linked to Mesoscopic TiO2Films. Journal of the American Chemical Society, 2006, 128, 2385-2393.	6.6	1,724
25	Exciton Recombination Dynamics in CdSe Nanowires:Â Bimolecular to Three-Carrier Auger Kinetics. Nano Letters, 2006, 6, 1344-1349.	4.5	129
26	Terahertz All-Optical Molecule- Plasmon Modulation. Advanced Materials, 2006, 18, 1645-1648.	11.1	103
27	Single-Walled Carbon Nanotube-CdS Nanocomposites as Light-Harvesting Assemblies: Photoinduced Charge-Transfer Interactions. Advanced Materials, 2005, 17, 2458-2463.	11.1	485
28	Electronic structure of multiquantum giant vortex states in mesoscopic superconducting disks. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 5233-5236.	3.3	37