

Roman Vaxenburg

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

25
papers

1,265
citations

16
h-index

25
g-index

25
ext. papers

1,459
ext. citations

11.5
avg, IF

4.21
L-index

#	Paper	IF	Citations
25	Dielectric Confinement and Excitonic Effects in Two-Dimensional Nanoplatelets. <i>ACS Nano</i> , 2020 , 14, 8257-8265	16.7	15
24	Exciton Fine Structure in Perovskite Nanocrystals. <i>Nano Letters</i> , 2019 , 19, 4068-4077	11.5	69
23	Bright triplet excitons in caesium lead halide perovskites. <i>Nature</i> , 2018 , 553, 189-193	50.4	517
22	Dynamic cues for whisker-based object localization: An analytical solution to vibration during active whisker touch. <i>PLoS Computational Biology</i> , 2018 , 14, e1006032	5	6
21	Quantum Dot-Peptide-Fullerene Bioconjugates for Visualization of in Vitro and in Vivo Cellular Membrane Potential. <i>ACS Nano</i> , 2017 , 11, 5598-5613	16.7	53
20	Biexciton Auger Recombination in CdSe/CdS Core/Shell Semiconductor Nanocrystals. <i>Nano Letters</i> , 2016 , 16, 2503-11	11.5	59
19	PbSe/CdSe Thin-Shell Colloidal Quantum Dots. <i>Zeitschrift Fur Physikalische Chemie</i> , 2015 , 229,	3.1	11
18	Nonradiative Auger recombination in semiconductor nanocrystals. <i>Nano Letters</i> , 2015 , 15, 2092-8	11.5	52
17	Quantum Confinement Regimes in CdTe Nanocrystals Probed by Single Dot Spectroscopy: From Strong Confinement to the Bulk Limit. <i>ACS Nano</i> , 2015 , 9, 7840-5	16.7	8
16	Dynamics of Intraband and Interband Auger Processes in Colloidal Core-Shell Quantum Dots. <i>ACS Nano</i> , 2015 , 9, 10366-76	16.7	39
15	Size-dependent energy levels of InSb quantum dots measured by scanning tunneling spectroscopy. <i>ACS Nano</i> , 2015 , 9, 725-32	16.7	31
14	Significance of Small-Sized PbSe/PbS Core/Shell Colloidal Quantum Dots for Optoelectronic Applications. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 17001-17009	3.8	30
13	PbSe-Based Colloidal Core/Shell Heterostructures for Optoelectronic Applications. <i>Materials</i> , 2014 , 7, 7243-7275	3.5	34
12	Tuning of electronic properties in IV-VI colloidal nanostructures by alloy composition and architecture. <i>Nanoscale</i> , 2013 , 5, 7724-45	7.7	21
11	The role of polarization fields in Auger-induced efficiency droop in nitride-based light-emitting diodes. <i>Applied Physics Letters</i> , 2013 , 103, 221111	3.4	39
10	Core/Shell PbSe/PbS QDs TiO ₂ Heterojunction Solar Cell. <i>Advanced Functional Materials</i> , 2013 , 23, 2736-2741	23.61	88
9	The Influence of Alloy Composition on the Electronic Properties of IV-VI Core/Shell Colloidal Heterostructures. <i>Israel Journal of Chemistry</i> , 2012 , 52, 1037-1052	3.4	5

8	Alloy and heterostructure architectures as promising tools for controlling electronic properties of semiconductor quantum dots. <i>Physical Review B</i> , 2012 , 85,	3.3	30
7	Small-Sized PbSe/PbS Core/Shell Colloidal Quantum Dots. <i>Chemistry of Materials</i> , 2012 , 24, 4417-4423	9.6	34
6	Influence of Alloying on the Optical Properties of IV-VI Nanorods. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 18983-18989	3.8	11
5	Optical Properties of Alloyed PbSe/Si Nanorods. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1390, 7		
4	Anomalous independence of multiple exciton generation on different group IV-VI quantum dot architectures. <i>Nano Letters</i> , 2011 , 11, 1623-9	11.5	52
3	Composition-tunable optical properties of colloidal IV-VI quantum dots, composed of core/shell heterostructures with alloy components. <i>ACS Nano</i> , 2010 , 4, 6547-56	16.7	55
2	Temperature dependence of the ground-state exciton in PbSe core and relevant core-shell colloidal quantum dot structures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, 2656-2659		5
1	Photoluminescence properties of PbSe/PbS core-shell quantum dots. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009 , 6, 2716-2718		1