

Svetlana V Kilina

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

1,597
citations

516710

16
h-index

752698

20
g-index

20
all docs

20
docs citations

20
times ranked

1557
citing authors

#	ARTICLE	IF	CITATIONS
1	Breaking the Phonon Bottleneck in PbSe and CdSe Quantum Dots: Time-Domain Density Functional Theory of Charge Carrier Relaxation. ACS Nano, 2009, 3, 93-99.	14.6	236
2	Quantum Zeno Effect Rationalizes the Phonon Bottleneck in Semiconductor Quantum Dots. Physical Review Letters, 2013, 110, 180404.	7.8	230
3	Scanning Tunneling Microscopy of DNA-Wrapped Carbon Nanotubes. Nano Letters, 2009, 9, 12-17.	9.1	140
4	Passivating ligand and solvent contributions to the electronic properties of semiconductor nanocrystals. Nanoscale, 2012, 4, 904-914.	5.6	123
5	Surface Chemistry of Semiconducting Quantum Dots: Theoretical Perspectives. Accounts of Chemical Research, 2016, 49, 2127-2135.	15.6	109
6	Ab Initio Time-Domain Study of Phonon-Assisted Relaxation of Charge Carriers in a PbSe Quantum Dot. Journal of Physical Chemistry C, 2007, 111, 4871-4878.	3.1	108
7	Generation of Multiple Excitons in PbSe and CdSe Quantum Dots by Direct Photoexcitation: First-Principles Calculations on Small PbSe and CdSe Clusters. Journal of Physical Chemistry C, 2008, 112, 18291-18294.	3.1	93
8	Ab Initio Study of Temperature and Pressure Dependence of Energy and Phonon-Induced Dephasing of Electronic Excitations in CdSe and PbSe Quantum Dots. Journal of Physical Chemistry C, 2008, 112, 7800-7808.	3.1	89
9	Ultrafast Vibrationally-Induced Dephasing of Electronic Excitations in PbSe Quantum Dots. Nano Letters, 2006, 6, 2295-2300.	9.1	88
10	Electronic Structure of Ligated CdSe Clusters: Dependence on DFT Methodology. Journal of Physical Chemistry C, 2011, 115, 15793-15800.	3.1	80
11	Low-Temperature Single Carbon Nanotube Spectroscopy of sp^3 Quantum Defects. ACS Nano, 2017, 11, 10785-10796.	14.6	79
12	Theoretical Study of Electron-Phonon Relaxation in PbSe and CdSe Quantum Dots: Evidence for Phonon Memory. Journal of Physical Chemistry C, 2011, 115, 21641-21651.	3.1	60
13	Ligands Slow Down Pure-Dephasing in Semiconductor Quantum Dots. ACS Nano, 2015, 9, 9106-9116.	14.6	59
14	Photoinduced Conductivity of a Porphyrin-Gold Composite Nanowire. Journal of Physical Chemistry A, 2009, 113, 4549-4556.	2.5	37
15	Thickness-Controlled Quasi-Two-Dimensional Colloidal PbSe Nanoplatelets. Journal of the American Chemical Society, 2017, 139, 2152-2155.	13.7	25
16	Computational Studies of Nucleotide Selectivity in DNA-Carbon Nanotube Hybrids. Journal of Physical Chemistry Letters, 2012, 3, 2790-2797.	4.6	19
17	Mono-/Bimetallic Neutral Iridium(III) Complexes Bearing Diketopyrrolopyrrole-Substituted N-Heterocyclic Carbene Ligands: Synthesis and Photophysics. Inorganic Chemistry, 2021, 60, 15278-15290.	4.0	9
18	Comparative analysis of electron-phonon relaxation in a semiconducting carbon nanotube and a PbSe quantum dot. Pure and Applied Chemistry, 2008, 80, 1433-1448.	1.9	5

#	ARTICLE	IF	CITATIONS
19	Dynamics of charge at water-to-semiconductor interface: Case study of wet [0 0 1] anatase TiO ₂ nanowire. <i>Chemical Physics</i> , 2016, 481, 184-190.	1.9	5
20	Hot Carrier Dynamics at Ligated Silicon(111) Surfaces: A Computational Study. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7504-7511.	4.6	3