

Alexander L Efros

List of Publications by Citations

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34
papers

6,002
citations

20
h-index

38
g-index

38
ext. papers

6,638
ext. citations

13.8
avg, IF

5.99
L-index

#	Paper	IF	Citations
34	Highly efficient multiple exciton generation in colloidal PbSe and PbS quantum dots. <i>Nano Letters</i> , 2005 , 5, 865-71	11.5	1425
33	Doping semiconductor nanocrystals. <i>Nature</i> , 2005 , 436, 91-4	50.4	1345
32	Doped nanocrystals. <i>Science</i> , 2008 , 319, 1776-9	33.3	1211
31	Bright triplet excitons in caesium lead halide perovskites. <i>Nature</i> , 2018 , 553, 189-193	50.4	517
30	Suppression of auger processes in confined structures. <i>Nano Letters</i> , 2010 , 10, 313-7	11.5	331
29	Origin and control of blinking in quantum dots. <i>Nature Nanotechnology</i> , 2016 , 11, 661-71	28.7	288
28	Dark and photo-conductivity in ordered array of nanocrystals. <i>Nano Letters</i> , 2013 , 13, 5454-61	11.5	84
27	Magnetic circular dichroism study of CdSe quantum dots. <i>Journal of Chemical Physics</i> , 1998 , 108, 4242-4247	7.0	70
26	Exciton Fine Structure in Perovskite Nanocrystals. <i>Nano Letters</i> , 2019 , 19, 4068-4077	11.5	69
25	Evaluating the potential of using quantum dots for monitoring electrical signals in neurons. <i>Nature Nanotechnology</i> , 2018 , 13, 278-288	28.7	63
24	Electric Field Modulation of Semiconductor Quantum Dot Photoluminescence: Insights Into the Design of Robust Voltage-Sensitive Cellular Imaging Probes. <i>Nano Letters</i> , 2015 , 15, 6848-54	11.5	62
23	Biexciton Auger Recombination in CdSe/CdS Core/Shell Semiconductor Nanocrystals. <i>Nano Letters</i> , 2016 , 16, 2503-11	11.5	59
22	Band-Edge Exciton in CdSe and Other II-VI and III-V Compound Semiconductor Nanocrystals - Revisited. <i>Nano Letters</i> , 2018 , 18, 4061-4068	11.5	57
21	Nanocrystal Quantum Dots: From Discovery to Modern Development. <i>ACS Nano</i> , 2021 , 15, 6192-6210	16.7	57
20	Efficiency of multiexciton generation in colloidal nanostructures. <i>Accounts of Chemical Research</i> , 2013 , 46, 1242-51	24.3	54
19	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
18	Energy Transfer Sensitization of Luminescent Gold Nanoclusters: More than Just the Classical Förster Mechanism. <i>Scientific Reports</i> , 2016 , 6, 35538	4.9	53

17	Evidence of Band-Edge Hole Levels Inversion in Spherical CuInS Quantum Dots. <i>Nano Letters</i> , 2018 , 18, 6353-6359	11.5	30
16	Quasicubic model for metal halide perovskite nanocrystals. <i>Journal of Chemical Physics</i> , 2019 , 151, 234106	9.9	29
15	Radiative recombination from dark excitons in nanocrystals: Activation mechanisms and polarization properties. <i>Physical Review B</i> , 2016 , 93,	3.3	24
14	n-Type PbSe Quantum Dots via Post-Synthetic Indium Doping. <i>Journal of the American Chemical Society</i> , 2018 , 140, 13753-13763	16.4	20
13	Effect of Anisotropic Confinement on Electronic Structure and Dynamics of Band Edge Excitons in Inorganic Perovskite Nanowires. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 1867-1876	2.8	18
12	Photoluminescence Enhancement through Symmetry Breaking Induced by Defects in Nanocrystals. <i>Nano Letters</i> , 2017 , 17, 4820-4830	11.5	16
11	Dielectric Confinement and Excitonic Effects in Two-Dimensional Nanoplatelets. <i>ACS Nano</i> , 2020 , 14, 8257-8265	16.7	15
10	Circular dichroism in non-chiral metal halide perovskites. <i>Nanoscale</i> , 2020 , 12, 18067-18078	7.7	15
9	Dark and Bright Excitons in Halide Perovskite Nanoplatelets.. <i>Advanced Science</i> , 2021 , e2103013	13.6	11
8	Temperature and magnetic-field dependence of radiative decay in colloidal germanium quantum dots. <i>Nano Letters</i> , 2015 , 15, 2685-92	11.5	10
7	The role of ligands in electron transport in nanocrystal solids. <i>Nanoscale</i> , 2020 , 12, 23028-23035	7.7	5
6	Gold-Nanoparticle-Mediated Depolarization of Membrane Potential Is Dependent on Concentration and Tethering Distance from the Plasma Membrane. <i>Bioconjugate Chemistry</i> , 2020 , 31, 567-576	6.3	3
5	Explaining the Unusual Photoluminescence of Semiconductor Nanocrystals Doped via Cation Exchange. <i>Nano Letters</i> , 2019 , 19, 4797-4803	11.5	2
4	Symmetry Breaking Induced Activation of Nanocrystal Optical Transitions. <i>MRS Advances</i> , 2018 , 3, 711-716	7.7	2
3	Rashba exciton in a 2D perovskite quantum dot. <i>Nanoscale</i> , 2021 , 13, 16769-16780	7.7	2
2	Intrinsic Gap States in Semiconductors with Inverted Band Structure: Comparison of SnTe vs PbTe Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 11974-11981	3.8	1
1	Cu ₂ -xS/PbS Core/Shell Nanocrystals with Improved Chemical Stability. <i>Chemistry of Materials</i> , 2021 , 33, 6685-6691	9.6	1