Alexander L Efros

List of Publications by Year in Descending Order

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	Dark and Bright Excitons in Halide Perovskite Nanoplatelets.. *Advanced Science*, **2021**, e2103013	13.6	11
33	Rashba exciton in a 2D perovskite quantum dot. *Nanoscale*, **2021**, 13, 16769-16780	7.7	2
32	Nanocrystal Quantum Dots: From Discovery to Modern Development. *ACS Nano*, **2021**, 15, 6192-6210	16.7	57
31	Cu2-xS/PbS Core/Shell Nanocrystals with Improved Chemical Stability. *Chemistry of Materials*, **2021**, 33, 6685-6691	9.6	1
30	Dielectric Confinement and Excitonic Effects in Two-Dimensional Nanoplatelets. *ACS Nano*, **2020**, 14, 8257-8265	16.7	15
29	Effect of Anisotropic Confinement on Electronic Structure and Dynamics of Band Edge Excitons in Inorganic Perovskite Nanowires. *Journal of Physical Chemistry A*, **2020**, 124, 1867-1876	2.8	18
28	The role of ligands in electron transport in nanocrystal solids. *Nanoscale*, **2020**, 12, 23028-23035	7.7	5
27	Gold-Nanoparticle-Mediated Depolarization of Membrane Potential Is Dependent on Concentration and Tethering Distance from the Plasma Membrane. *Bioconjugate Chemistry*, **2020**, 31, 567-576	6.3	3
26	Circular dichroism in non-chiral metal halide perovskites. *Nanoscale*, **2020**, 12, 18067-18078	7.7	15
25	Explaining the Unusual Photoluminescence of Semiconductor Nanocrystals Doped via Cation Exchange. *Nano Letters*, **2019**, 19, 4797-4803	11.5	2
24	Exciton Fine Structure in Perovskite Nanocrystals. *Nano Letters*, **2019**, 19, 4068-4077	11.5	69
23	Intrinsic Gap States in Semiconductors with Inverted Band Structure: Comparison of SnTe vs PbTe Nanocrystals. *Journal of Physical Chemistry C*, **2019**, 123, 11974-11981	3.8	1
22	Quasicubic model for metal halide perovskite nanocrystals. *Journal of Chemical Physics*, **2019**, 151, 234106	3.9	29
21	Evaluating the potential of using quantum dots for monitoring electrical signals in neurons. *Nature Nanotechnology*, **2018**, 13, 278-288	28.7	63
20	Symmetry Breaking Induced Activation of Nanocrystal Optical Transitions. *MRS Advances*, **2018**, 3, 711-716	0.7	2
19	Bright triplet excitons in caesium lead halide perovskites. *Nature*, **2018**, 553, 189-193	50.4	517
18	Band-Edge Exciton in CdSe and Other II-VI and III-V Compound Semiconductor Nanocrystals - Revisited. *Nano Letters*, **2018**, 18, 4061-4068	11.5	57

17	n-Type PbSe Quantum Dots via Post-Synthetic Indium Doping. *Journal of the American Chemical Society*, **2018**, 140, 13753-13763	16.4	20
16	Evidence of Band-Edge Hole Levels Inversion in Spherical CuInS Quantum Dots. *Nano Letters*, **2018**, 18, 6353-6359	11.5	30
15	Quantum Dot-Peptide-Fullerene Bioconjugates for Visualization of in Vitro and in Vivo Cellular Membrane Potential. *ACS Nano*, **2017**, 11, 5598-5613	16.7	53
14	Photoluminescence Enhancement through Symmetry Breaking Induced by Defects in Nanocrystals. *Nano Letters*, **2017**, 17, 4820-4830	11.5	16
13	Energy Transfer Sensitization of Luminescent Gold Nanoclusters: More than Just the Classical Förster Mechanism. *Scientific Reports*, **2016**, 6, 35538	4.9	53
12	Radiative recombination from dark excitons in nanocrystals: Activation mechanisms and polarization properties. *Physical Review B*, **2016**, 93,	3.3	24
11	Biexciton Auger Recombination in CdSe/CdS Core/Shell Semiconductor Nanocrystals. *Nano Letters*, **2016**, 16, 2503-11	11.5	59
10	Origin and control of blinking in quantum dots. *Nature Nanotechnology*, **2016**, 11, 661-71	28.7	288
9	Temperature and magnetic-field dependence of radiative decay in colloidal germanium quantum dots. *Nano Letters*, **2015**, 15, 2685-92	11.5	10
8	Electric Field Modulation of Semiconductor Quantum Dot Photoluminescence: Insights Into the Design of Robust Voltage-Sensitive Cellular Imaging Probes. *Nano Letters*, **2015**, 15, 6848-54	11.5	62
7	Dark and photo-conductivity in ordered array of nanocrystals. *Nano Letters*, **2013**, 13, 5454-61	11.5	84
6	Efficiency of multiexciton generation in colloidal nanostructures. *Accounts of Chemical Research*, **2013**, 46, 1242-51	24.3	54
5	Suppression of auger processes in confined structures. *Nano Letters*, **2010**, 10, 313-7	11.5	331
4	Doped nanocrystals. *Science*, **2008**, 319, 1776-9	33.3	1211
3	Highly efficient multiple exciton generation in colloidal PbSe and PbS quantum dots. *Nano Letters*, **2005**, 5, 865-71	11.5	1425
2	Doping semiconductor nanocrystals. *Nature*, **2005**, 436, 91-4	50.4	1345
1	Magnetic circular dichroism study of CdSe quantum dots. *Journal of Chemical Physics*, **1998**, 108, 4242-4247	3.9	70