

# Gianluca Grimaldi

## List of Publications by Year in descending order

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21  
papers

704  
citations

687363

13  
h-index

752698

20  
g-index

21  
all docs

21  
docs citations

21  
times ranked

1203  
citing authors

#	ARTICLE	IF	CITATIONS
1	Finding and Fixing Traps in II–VI and III–V Colloidal Quantum Dots: The Importance of Z-Type Ligand Passivation. <i>Journal of the American Chemical Society</i> , 2018, 140, 15712-15723.	13.7	166
2	Spectroscopic Evidence for the Contribution of Holes to the Bleach of Cd-Chalcogenide Quantum Dots. <i>Nano Letters</i> , 2019, 19, 3002-3010.	9.1	72
3	Grain Size Influences Activation Energy and Migration Pathways in MAPbBr <sub>3</sub> Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2423-2428.	4.6	71
4	Tunable Quantum Confinement in Ultrathin, Optically Active Semiconductor Nanowires Via Reverse Reaction Growth. <i>Advanced Materials</i> , 2015, 27, 2195-2202.	21.0	50
5	Hot-electron transfer in quantum-dot heterojunction films. <i>Nature Communications</i> , 2018, 9, 2310.	12.8	48
6	Crystal Phase Quantum Dots in the Ultrathin Core of GaAs–AlGaAs Core–Shell Nanowires. <i>Nano Letters</i> , 2015, 15, 7544-7551.	9.1	47
7	Spectroelectrochemical Signatures of Surface Trap Passivation on CdTe Nanocrystals. <i>Chemistry of Materials</i> , 2018, 30, 8052-8061.	6.7	44
8	Highly Photoconductive InP Quantum Dots Films and Solar Cells. <i>ACS Applied Energy Materials</i> , 2018, 1, 6569-6576.	5.1	40
9	Electrochemical Modulation of the Photophysics of Surface-Localized Trap States in Core/Shell/(Shell) Quantum Dot Films. <i>Chemistry of Materials</i> , 2019, 31, 8484-8493.	6.7	35
10	Atomic Layer Deposition of ZnO on InP Quantum Dot Films for Charge Separation, Stabilization, and Solar Cell Formation. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901600.	3.7	23
11	Quantitative Electrochemical Control over Optical Gain in Quantum-Dot Solids. <i>ACS Nano</i> , 2021, 15, 377-386.	14.6	22
12	Asymmetric Optical Transitions Determine the Onset of Carrier Multiplication in Lead Chalcogenide Quantum Confined and Bulk Crystals. <i>ACS Nano</i> , 2018, 12, 4796-4802.	14.6	16
13	Reduced Barrier for Ion Migration in Mixed-Halide Perovskites. <i>ACS Applied Energy Materials</i> , 2021, 4, 13431-13437.	5.1	16
14	Ultrafast Charge Transfer and Upconversion in Zinc Tetraaminophthalocyanine-Functionalized PbS Nanostructures Probed by Transient Absorption Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14061-14065.	13.8	12
15	Selective antimony reduction initiating the nucleation and growth of InSb quantum dots. <i>Nanoscale</i> , 2018, 10, 11110-11116.	5.6	11
16	Engineering the Band Alignment in QD Heterojunction Films via Ligand Exchange. <i>Journal of Physical Chemistry C</i> , 2019, 123, 29599-29608.	3.1	8
17	Accelerated Hot-Carrier Cooling in MAPbI <sub>3</sub> Perovskite by Pressure-Induced Lattice Compression. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 4118-4124.	4.6	8
18	Ultrafast Charge Transfer and Upconversion in Zinc Tetraaminophthalocyanine-Functionalized PbS Nanostructures Probed by Transient Absorption Spectroscopy. <i>Angewandte Chemie</i> , 2017, 129, 14249-14253.	2.0	6

#	ARTICLE	IF	CITATIONS
19	Model To Determine a Distinct Rate Constant for Carrier Multiplication from Experiments. ACS Applied Energy Materials, 2019, 2, 721-728.	5.1	4
20	Microstructuring of 2D perovskites via ion-exchange fabrication. Applied Physics Letters, 2021, 119, 223102.	3.3	3
21	Quantitative electrochemical control over optical gain in colloidal quantum-dot and quantum-well solids. , 2020, , .		2