

# Marco Califano

## List of Publications by Year in descending order

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56  
papers

3,043  
citations

257450

24  
h-index

182427

51  
g-index

56  
all docs

56  
docs citations

56  
times ranked

3990  
citing authors

#	ARTICLE	IF	CITATIONS
1	Band-like transport in "green" quantum dot films: The effect of composition and stoichiometry. <i>Journal of Chemical Physics</i> , 2022, 156, 104704.	3.0	0
2	Inverse-designed semiconductor nanocatalysts for targeted CO <sub>2</sub> reduction in water. <i>Nanoscale</i> , 2021, 13, 10024-10034.	5.6	4
3	Decoupling Radiative and Auger Processes in Semiconductor Nanocrystals by Shape Engineering. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 9155-9161.	4.6	2
4	Indirect to Direct Band Gap Transformation by Surface Engineering in Semiconductor Nanostructures. <i>ACS Nano</i> , 2021, 15, 20181-20191.	14.6	11
5	Optical properties of nanocrystal films: blue shifted transitions as signature of strong coupling. <i>Nanoscale Advances</i> , 2020, 2, 384-393.	4.6	5
6	Charge Dynamics in Quantum-Dot "Acceptor Complexes in the Presence of Confining and Deconfining Ligands. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 280-285.	4.6	1
7	Tuning the Radiative Lifetime in InP Colloidal Quantum Dots by Controlling the Surface Stoichiometry. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 10124-10130.	4.6	15
8	New strategies for colloidal-quantum-dot-based intermediate-band solar cells. <i>Journal of Chemical Physics</i> , 2019, 151, 154101.	3.0	3
9	Effective Approach for an Order-of-Magnitude-Accurate Evaluation of the Electron Mobility in Colloidal Quantum Dot Films. <i>Journal of Nanomaterials</i> , 2019, 2019, 1-9.	2.7	3
10	Band-like electron transport in 2D quantum dot periodic lattices: the effect of realistic size distributions. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 25872-25879.	2.8	8
11	Theoretical Characterization of GaSb Colloidal Quantum Dots and Their Application to Photocatalytic CO <sub>2</sub> Reduction with Water. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 640-646.	8.0	11
12	Ultrafast Trap State-Mediated Electron Transfer for Quantum Dot Redox Sensing. <i>Journal of Physical Chemistry C</i> , 2018, 122, 10173-10180.	3.1	22
13	Suppression of Auger Recombination in Nanocrystals via Ligand-Assisted Wave Function Engineering in Reciprocal Space. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2098-2104.	4.6	15
14	Efficient Mobility Calculation for Quantum Dot Superlattices. , 2018, , .		0
15	Multiscale in modelling and validation for solar photovoltaics. <i>EPJ Photovoltaics</i> , 2018, 9, 10.	1.6	6
16	Efficient, non-stochastic, Monte-Carlo-like-accurate method for the calculation of the temperature-dependent mobility in nanocrystal films. <i>Nanoscale</i> , 2018, 10, 9679-9690.	5.6	9
17	High-Mobility Toolkit for Quantum Dot Films. <i>ACS Photonics</i> , 2016, 3, 2059-2067.	6.6	15
18	Exciton Dynamics in InSb Colloidal Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 31-35.	4.6	20

#	ARTICLE	IF	CITATIONS
19	Origins of improved carrier multiplication efficiency in elongated semiconductor nanostructures. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 2573-2581.	2.8	9
20	Effect of Chloride Passivation on Recombination Dynamics in CdTe Colloidal Quantum Dots. <i>ChemPhysChem</i> , 2015, 16, 1239-1244.	2.1	26
21	Origins of Photoluminescence Decay Kinetics in CdTe Colloidal Quantum Dots. <i>ACS Nano</i> , 2015, 9, 2960-2967.	14.6	31
22	Auger-Assisted Electron Transfer from Photoexcited Semiconductor Quantum Dots. <i>Nano Letters</i> , 2014, 14, 1263-1269.	9.1	197
23	Universal Trapping Mechanism in Semiconductor Nanocrystals. <i>Nano Letters</i> , 2013, 13, 2047-2052.	9.1	55
24	Hole Surface Trapping in CdSe Nanocrystals: Dynamics, Rate Fluctuations, and Implications for Blinking. <i>Nano Letters</i> , 2012, 12, 4508-4517.	9.1	78
25	Off-State Quantum Yields in the Presence of Surface Trap States in CdSe Nanocrystals: The Inadequacy of the Charging Model To Explain Blinking. <i>Journal of Physical Chemistry C</i> , 2011, 115, 18051-18054.	3.1	30
26	Photoinduced Surface Trapping and the Observed Carrier Multiplication Yields in Static CdSe Nanocrystal Samples. <i>ACS Nano</i> , 2011, 5, 3614-3621.	14.6	24
27	Size-Dependent Valence and Conduction Band-Edge Energies of Semiconductor Nanocrystals. <i>ACS Nano</i> , 2011, 5, 5888-5902.	14.6	600
28	Monotonic Evolution of the Optical Properties in the Transition from Three- to Quasi-Two-Dimensional Quantum Confinement in InAs Nanorods. <i>Journal of Physical Chemistry C</i> , 2010, 114, 6901-6908.	3.1	9
29	Si/SiGe quantum cascade superlattice designs for terahertz emission. <i>Journal of Applied Physics</i> , 2010, 107, 053109.	2.5	21
30	Pseudopotential study of electronic and optical properties of InAs semiconductor nanostructures. , 2010, , .		0
31	The effect of small elongations on the electronic and optical signatures in InAs nanocrystal quantum dots. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 144212.	1.8	2
32	Re-examination of the Size-Dependent Absorption Properties of CdSe Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2009, 113, 19468-19474.	3.1	523
33	Electron Relaxation Following UV Excitation in CdSe Nanocrystals: Sub-Picosecond-Fast Population of the $1P_{1/2}$ States Across a Gap Wider Than 10 Phonon Energies. <i>Journal of Physical Chemistry C</i> , 2009, 113, 19859-19862.	3.1	4
34	Direct and Inverse Auger Processes in InAs Nanocrystals: Can the Decay Signature of a Trion Be Mistaken for Carrier Multiplication?. <i>ACS Nano</i> , 2009, 3, 2706-2714.	14.6	32
35	Model-independent determination of the carrier multiplication time constant in CdSe nanocrystals. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 10180.	2.8	3
36	Interband and intraband optical transitions in InAs nanocrystal quantum dots: A pseudopotential approach. <i>Physical Review B</i> , 2008, 78, .	3.2	42



#	ARTICLE	IF	CITATIONS
55	Presentation and experimental validation of a single-band, constant-potential model for self-assembled InAs/GaAs quantum dots. <i>Physical Review B</i> , 2000, 61, 10959-10965.	3.2	100
56	Approximate methods for the solution of quantum wires and dots: Connection rules between pyramidal, cuboidal, and cubic dots. <i>Journal of Applied Physics</i> , 1999, 86, 5054-5059.	2.5	40