Nicolas Goubet

List of Publications by Year
in descending order

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		257357	276775
50	1,741	24	41
papers	citations	h-index	g-index

50	50	50	1881
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mercury Chalcogenide Quantum Dots: Material Perspective for Device Integration. Chemical Reviews, 2021, 121, 3627-3700.	23.0	70
2	Large HgTe nanocrystals for THz technology. , 2021, , .		0
3	Few picosecond dynamics of intraband transitions in THz HgTe nanocrystals. Nanophotonics, 2021, 10, 2753-2763.	2.9	10
4	Versatile and robust synthesis process for the fine control of the chemical composition and core-crystallinity of spherical coreâ€“shell Au@Ag nanoparticles. Nanotechnology, 2021, 32, 095604.	1.3	5
5	Designing Photovoltaic Devices Using HgTe Nanocrystals for Short and Midâ€Wave Infrared Detection. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 1900449.	0.8	3
6	Potential of Colloidal Quantum Dot Based Solar Cells for Near-Infrared Active Detection. ACS Photonics, 2020, 7, 272-278.	3.2	13
7	Near- to Long-Wave-Infrared Mercury Chalcogenide Nanocrystals from Liquid Mercury. Journal of Physical Chemistry C, 2020, 124, 8423-8430.	1.5	14
8	Inelastic Light Scattering by Long Narrow Gold Nanocrystals: When Size, Shape, Crystallinity, and Assembly Matter. ACS Nano, 2020, 14, 4395-4404.	7.3	9
9	Interactions Between Topological Defects and Nanoparticles. Frontiers in Physics, 2020, 7, .	1.0	2
10	From Chains to Monolayers: Nanoparticle Assembly Driven by Smectic Topological Defects. Nano Letters, 2020, 20, 1598-1606.	4.5	19
11	HgTe Nanocrystals for SWIR Detection and Their Integration up to the Focal Plane Array. ACS Applied Materials & Interfaces, 2019, 11, 33116-33123.	4.0	53
12	Azobenzenes as Light-Activable Carrier Density Switches in Nanocrystals. Journal of Physical Chemistry C, 2019, 123, 27257-27263.	1.5	3
13	Near Unity Absorption in Nanocrystal Based Short Wave Infrared Photodetectors Using Guided Mode Resonators. ACS Photonics, 2019, 6, 2553-2561.	3.2	44
14	Impact of dimensionality and confinement on the electronic properties of mercury chalcogenide nanocrystals. Nanoscale, 2019, 11, 3905-3915.	2.8	18
15	HgTe Nanocrystal Inks for Extended Shortâ€Wave Infrared Detection. Advanced Optical Materials, 2019, 7, 1900348.	3.6	52
16	Field-Effect Transistor and Photo-Transistor of Narrow-Band-Gap Nanocrystal Arrays Using Ionic Glasses. Nano Letters, 2019, 19, 3981-3986.	4.5	23
17	A colloidal quantum dot infrared photodetector and its use for intraband detection. Nature Communications, 2019, 10, 2125.	5.8	155
18	Effect of Pressure on Interband and Intraband Transition of Mercury Chalcogenide Quantum Dots. Journal of Physical Chemistry C, 2019, 123, 13122-13130.	1.5	18

#	Article	IF	Citations
19	Transport in ITO Nanocrystals with Short- to Long-Wave Infrared Absorption for Heavy-Metal-Free Infrared Photodetection. ACS Applied Nano Materials, 2019, 2, 1621-1630.	2.4	19
20	Terahertz HgTe Nanocrystals: Beyond Confinement. Journal of the American Chemical Society, 2018, 140, 5033-5036.	6.6	107
21	Exciton-phonon coupling in a CsPbBr3 single nanocrystal. Applied Physics Letters, 2018, 112, .	1.5	67
22	Probing Charge Carrier Dynamics to Unveil the Role of Surface Ligands in HgTe Narrow Band Gap Nanocrystals. Journal of Physical Chemistry C, 2018, 122, 859-865.	1.5	37
23	Band Edge Dynamics and Multiexciton Generation in Narrow Band Gap HgTe Nanocrystals. ACS Applied Materials & Interfaces, 2018, 10, 11880-11887.	4.0	23
24	Strategy to overcome recombination limited photocurrent generation in CsPbX3 nanocrystal arrays. Applied Physics Letters, 2018, 112, .	1.5	19
25	Road Map for Nanocrystal Based Infrared Photodetectors. Frontiers in Chemistry, 2018, 6, 575.	1.8	52
26	Design of a Unipolar Barrier for a Nanocrystal-Based Short-Wave Infrared Photodiode. ACS Photonics, 2018, 5, 4569-4576.	3.2	49
27	Wave-Function Engineering in HgSe/HgTe Colloidal Heterostructures To Enhance Mid-infrared Photoconductive Properties. Nano Letters, 2018, 18, 4590-4597.	4.5	24
28	HgTe, the Most Tunable Colloidal Material: from the Strong Confinement Regime to THz Material. MRS Advances, 2018, 3, 2913-2921.	0.5	2
29	Emergence of intraband transitions in colloidal nanocrystals [Invited]. Optical Materials Express, 2018, 8, 1174.	1.6	27
30	Intraband Mid-Infrared Transitions in Ag₂Se Nanocrystals: Potential and Limitations for Hg-Free Low-Cost Photodetection. Journal of Physical Chemistry C, 2018, 122, 18161-18167.	1.5	59
31	Short Wave Infrared Devices Based on HgTe Nanocrystals with Air Stable Performances. Journal of Physical Chemistry C, 2018, 122, 14979-14985.	1.5	49
32	HgSe Self-Doped Nanocrystals as a Platform to Investigate the Effects of Vanishing Confinement. ACS Applied Materials & Interfaces, 2017, 9, 36173-36180.	4.0	40
33	Nano-contact microscopy of supracrystals. Beilstein Journal of Nanotechnology, 2015, 6, 1229-1236.	1.5	2
34	Negative supracrystals inducing a FCC-BCC transition in gold nanocrystal superlattices. Nano Research, 2014, 7, 171-179.	5.8	21
35	Spontaneous Formation of High-Index Planes in Gold Single Domain Nanocrystal Superlattices. Nano Letters, 2014, 14, 6632-6638.	4.5	12
36	Soft Supracrystals of Au Nanocrystals with Tunable Mechanical Properties. Advanced Functional Materials, 2013, 23, 2315-2321.	7.8	44

#	ARTICLE	IF	CITATIONS
37	Assessing the relevance of building block crystallinity for tuning the stiffness of gold nanocrystal superlattices. Nanoscale, 2013, 5, 9523.	2.8	21
38	Modulating Physical Properties of Isolated and Self-Assembled Nanocrystals through Change in Nanocrystallinity. Nano Letters, 2013, 13, 504-508.	4.5	73
39	Impact of nanocrystallinity segregation on the growth and morphology of nanocrystal superlattices. Nano Research, 2013, 6, 611-618.	5.8	11
40	Simultaneous Interfacial and Precipitated Supracrystals of Au Nanocrystals: Experiments and Simulations. Journal of Physical Chemistry B, 2013, 117, 4510-4516.	1.2	8
41	Hierarchy in Au Nanocrystal Ordering in a Supracrystal: II. Control of Interparticle Distances. Langmuir, 2013, 29, 13576-13581.	1.6	43
42	Electronic properties probed by scanning tunneling spectroscopy: From isolated gold nanocrystal to well-defined supracrystals. Physical Review B, 2012, 86, .	1.1	14
43	Unexpected Electronic Properties of Micrometer-Thick Supracrystals of Au Nanocrystals. Nano Letters, 2012, 12, 2051-2055.	4.5	42
44	Crystallinity Segregation upon Selective Self-Assembling of Gold Colloidal Single Nanocrystals. Nano Letters, 2012, 12, 5292-5298.	4.5	50
45	Simultaneous Growths of Gold Colloidal Crystals. Journal of the American Chemical Society, 2012, 134, 3714-3719.	6.6	89
46	Which Forces Control Supracrystal Nucleation in Organic Media?. Advanced Functional Materials, 2011, 21, 2693-2704.	7.8	102
47	Crystallinity Dependence of the Plasmon Resonant Raman Scattering by Anisotropic Gold Nanocrystals. ACS Nano, 2010, 4, 3489-3497.	7.3	52
48	How to Tune the Au Internanocrystal Distance in Two-Dimensional Self-Ordered Superlattices. Journal of Physical Chemistry Letters, 2010, 1, 149-154.	2.1	35
49	A Way To Control the Gold Nanocrystals Size: Using Seeds with Different Sizes and Subjecting Them to Mild Annealing. ACS Nano, 2009, 3, 3622-3628.	7.3	37
50	Crystal growth from cluster to bulk materials via nanomaterials. Zeitschrift Fur Kristallographie - Crystalline Materials, 2007, 222, 663-667.	0.4	0