

Yannick Mugnier

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3316722/publications.pdf>

Version: 2024-02-01

63
papers

1,355
citations

430874

18
h-index

377865

34
g-index

65
all docs

65
docs citations

65
times ranked

1456
citing authors

#	ARTICLE	IF	CITATIONS
1	Harmonic Nanocrystals for Biolabeling: A Survey of Optical Properties and Biocompatibility. ACS Nano, 2012, 6, 2542-2549.	14.6	174
2	Individual inorganic nanoparticles: preparation, functionalization and in vitro biomedical diagnostic applications. Journal of Materials Chemistry B, 2013, 1, 1381.	5.8	110
3	Polar Fe(IO ₃) ₃ nanocrystals as local probes for nonlinear microscopy. Applied Physics B: Lasers and Optics, 2007, 87, 399-403.	2.2	98
4	Polymer encapsulation of inorganic nanoparticles for biomedical applications. International Journal of Pharmaceutics, 2013, 458, 230-241.	5.2	77
5	Nanodoublers as deep imaging markers for multi-photon microscopy. Optics Express, 2009, 17, 15342.	3.4	71
6	Haemocompatibility evaluation of DLC- and SiC-coated surfaces. , 2003, 5, 17-28.		68
7	Ensemble and Individual Characterization of the Nonlinear Optical Properties of ZnO and BaTiO ₃ Nanocrystals. Journal of Physical Chemistry C, 2011, 115, 15140-15146.	3.1	54
8	Nano-FROG: Frequency resolved optical gating by a nanometric object. Optics Express, 2008, 16, 10405.	3.4	45
9	Characterization of the nonlinear optical properties of nanocrystals by Hyper Rayleigh Scattering. Journal of Nanobiotechnology, 2013, 11, S8.	9.1	44
10	Harmonic nanoparticles: noncentrosymmetric metal oxides for nonlinear optics. Journal of Optics (United Kingdom), 2015, 17, 033001.	2.2	36
11	High-speed Tracking of Murine Cardiac Stem Cells by Harmonic Nanodoublers. Small, 2012, 8, 2752-2756.	10.0	34
12	Cellular uptake and biocompatibility of bismuth ferrite harmonic advanced nanoparticles. Nanomedicine: Nanotechnology, Biology, and Medicine, 2015, 11, 815-824.	3.3	33
13	Nonlinear optical and magnetic properties of BiFeO ₃ harmonic nanoparticles. Journal of Applied Physics, 2014, 116, .	2.5	32
14	Development and characterization of nanocomposite materials. Materials Science and Engineering C, 2007, 27, 1260-1264.	7.3	28
15	Two-Photon-Triggered Photorelease of Caged Compounds from Multifunctional Harmonic Nanoparticles. ACS Applied Materials & Interfaces, 2019, 11, 27443-27452.	8.0	24
16	Second harmonic spectroscopy of ZnO, BiFeO ₃ and LiNbO ₃ nanocrystals. Optical Materials Express, 2019, 9, 1955.	3.0	24
17	Synthesis and characterisation of Fe(IO ₃) ₃ nanosized powder. Journal of Alloys and Compounds, 2006, 416, 261-264.	5.5	22
18	Photocontrolled Release of the Anticancer Drug Chlorambucil with Caged Harmonic Nanoparticles. Helvetica Chimica Acta, 2020, 103, e1900251.	1.6	21

#	ARTICLE	IF	CITATIONS
19	Multiorder Nonlinear Mixing in Metal Oxide Nanoparticles. Nano Letters, 2020, 20, 8725-8732.	9.1	20
20	In Situ Crystallization and Growth Dynamics of Acentric Iron Iodate Nanocrystals in w/o Microemulsions Probed by Hyper-Rayleigh Scattering Measurements. Journal of Physical Chemistry C, 2011, 115, 23-30.	3.1	19
21	Aminodextran-coated potassium niobate (KNbO ₃) nanocrystals for second harmonic bio-imaging. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 439, 131-137.	4.7	18
22	Preparation from a revisited wet chemical route of phase-pure, monocrystalline and SHG-efficient BiFeO ₃ nanoparticles for harmonic bio-imaging. Scientific Reports, 2018, 8, 10473.	3.3	18
23	Multi-Order Investigation of the Nonlinear Susceptibility Tensors of Individual Nanoparticles. Scientific Reports, 2016, 6, 25415.	3.3	16
24	SHG Active Fe(IO ₃) ₃ Particles: From Spherical Nanocrystals to Urchin-Like Microstructures through the Additive-Mediated Microemulsion Route. Crystal Growth and Design, 2012, 12, 5387-5395.	3.0	15
25	Dielectric characterization and ionic conductivity of $\hat{\pm}$ -LiIO ₃ crystals related to the growth conditions. Solid State Communications, 2000, 115, 619-623.	1.9	14
26	Bismuth ferrite dielectric nanoparticles excited at telecom wavelengths as multicolor sources by second, third, and fourth harmonic generation. Nanoscale, 2018, 10, 8146-8152.	5.6	14
27	On the Reaction Pathways and Growth Mechanisms of LiNbO ₃ Nanocrystals from the Non-Aqueous Solvothermal Alkoxide Route. Nanomaterials, 2021, 11, 154.	4.1	14
28	Lithium iodate nanocrystals in Laponite matrix for nonlinear optical applications. Applied Physics Letters, 2004, 85, 710-711.	3.3	13
29	Averaged third-order susceptibility of ZnO nanocrystals from Third Harmonic Generation and Third Harmonic Scattering. Optical Materials, 2018, 84, 579-585.	3.6	13
30	Wavelength-Selective Nonlinear Imaging and Photo-Induced Cell Damage by Dielectric Harmonic Nanoparticles. ACS Nano, 2020, 14, 4087-4095.	14.6	13
31	Nano-oxidation of titanium films with large atomically flat surfaces by means of voltage-modulated scanning probe microscopy. Surface and Interface Analysis, 2002, 34, 490-493.	1.8	12
32	Optimization of the piezoelectric response of 0 $\hat{\pm}$ 3 composites: a modeling approach. Smart Materials and Structures, 2011, 20, 115006.	3.5	12
33	Nonlinear optical susceptibility of two-dimensional WS ₂ measured by hyper Rayleigh scattering. Optics Letters, 2017, 42, 5018.	3.3	12
34	Microwave Synthesis and Up-Conversion Properties of SHG-Active $\hat{\pm}$ -(La, Tj)ETQqO ₀ 0 rgBT /Overlock 10 Tf 50 142 Td (Er)(IO ₃) ₃ /	4.0	12
35	Synthesis, Characterization, and Crystal Structure Determination of a New Lithium Zinc Iodate Polymorph LiZn(IO ₃) ₃ . Crystals, 2019, 9, 464.	2.2	12
36	Low-Frequency Relaxation Phenomena in $\hat{\pm}$ -LiIO ₃ : The Nature and Role of Defects. Journal of Solid State Chemistry, 2002, 168, 76-84.	2.9	11

#	ARTICLE	IF	CITATIONS
37	Image Correlation Spectroscopy with Second Harmonic Generating Nanoparticles in Suspension and in Cells. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6112-6118.	4.6	10
38	Second-Harmonic Generation Imaging of LiIO ₃ /Laponite Nanocomposite Waveguides. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 7525-7530.	1.5	9
39	An inexpensive nonlinear medium for intense ultrabroadband pulse characterization. <i>Applied Physics B: Lasers and Optics</i> , 2009, 97, 537-540.	2.2	9
40	LiIO ₃ /SiO ₂ nanocomposite for quadratic non-linear optical applications. <i>Journal of Non-Crystalline Solids</i> , 2004, 341, 152-156.	3.1	7
41	Gold-seeded Lithium Niobate Nanoparticles: Influence of Gold Surface Coverage on Second Harmonic Properties. <i>Nanomaterials</i> , 2021, 11, 950.	4.1	7
42	Solution-Based Synthesis Routes for the Preparation of Noncentrosymmetric Oxide Nanocrystals with Perovskite and Nonperovskite Structures. <i>Small</i> , 2022, 18, . <i>Dispersion of the nonlinear susceptibility of</i>	10.0	7
43	MoS_2 and WS_2 from second-harmonic scattering spectroscopy. <i>Physical Review B</i> , 2020, 102, .	3.2	6
44	LiIO ₃ : growth and properties for optical and photoluminescent applications. <i>Optical Materials</i> , 2002, 19, 33-35.	3.6	5
45	Preparation of transparent PMMA/Fe ₃ nanocomposite films from microemulsion polymerization. <i>Journal of Applied Polymer Science</i> , 2013, 130, 1203-1211.	2.6	5
46	Gd ³⁺ -Functionalized Lithium Niobate Nanoparticles for Dual Multiphoton and Magnetic Resonance Bioimaging. <i>ACS Applied Nano Materials</i> , 0, , .	5.0	5
47	Relaxation phenomena in lithium iodate crystals. <i>Ferroelectrics</i> , 2001, 257, 141-146.	0.6	4
48	Dual light-emitting Yb ³⁺ ,Er ³⁺ -doped La(IO ₃) ₃ iodate nanocrystals: up-conversion and second harmonic generation. <i>MRS Communications</i> , 2019, 9, 1221-1226.	1.8	4
49	Comparative study of electrical behavior and phase transitions in pure and chromium doped LiIO_3 single crystals. <i>Radiation Effects and Defects in Solids</i> , 1999, 150, 333-340.	1.2	3
50	Temperature-dependent adsorption of surfactant molecules and associated crystallization kinetics of noncentrosymmetric Fe(IO ₃) ₃ nanorods in microemulsions. <i>Materials Research Bulletin</i> , 2013, 48, 4431-4437.	5.2	3
51	Preparation and Preliminary Nonlinear Optical Properties of BiFeO ₃ Nanocrystal Suspensions from a Simple, Chelating Agent-Free Precipitation Route. <i>Journal of Nanomaterials</i> , 2018, 2018, 1-9.	2.7	3
52	Synthesis and Characterization of Novel Nanoparticles of Lithium Aluminum Iodate LiAl(IO ₃) ₄ , and DFT Calculations of the Crystal Structure and Physical Properties. <i>Nanomaterials</i> , 2021, 11, 3289.	4.1	3
53	LiIO ₃ nanocrystals in SiO ₂ xerogels, a new material for nonlinear optics. , 2003, 5222, 26.		2
54	Toxicological consequences of extracting KNbO ₃ and BaTiO ₃ nanoparticles from water using ionic liquids. <i>RSC Advances</i> , 2013, 3, 9223.	3.6	2

#	ARTICLE	IF	CITATIONS
55	Nonlinear optical properties of silicon carbide (SiC) nanoparticles by carbothermal reduction. , 2016, , .		2
56	Towards a One-Step Synthesis and Encapsulation of Acentric Iron Iodate ($\text{Fe}(\text{IO}_3)_3$) Nanocrystals via Inverse Miniemulsion. Science of Advanced Materials, 2014, 6, 102-110.	0.7	1
57	Orientation of LiIO_3 Nanocrystals in Laponite Matrix for Periodically Structured Non-Linear Waveguides. Ferroelectrics, 2005, 320, 25-33.	0.6	0
58	SFM and EFM Studies on a Clay-Based Dielectric Nanocomposite. Ferroelectrics, 2005, 320, 51-57.	0.6	0
59	Polarization sensitive two-photon microscopy of nanometric $\text{Fe}(\text{IO}_3)_3$ crystals. , 2007, , .		0
60	Harmonic nanoparticles for nonlinear bio-imaging and detection. Proceedings of SPIE, 2013, , .	0.8	0
61	Wavelength Dependence of the Second-Order Nonlinear Susceptibility of Harmonic Nanoparticles. , 2018, , .		0
62	Dielectric Nanoparticles Excited at Telecom Wavelengths as Multiharmonic Multicolor Sources. , 2018, , .		0
63	Integrating plasmonic metals and 2D transition metal dichalcogenides for enhanced nonlinear frequency conversion. , 2018, , .		0