Yannick Mugnier

List of Publications by Year
in descending order

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	Solutionâ€Based Synthesis Routes for the Preparation of Noncentrosymmetric 0â€Ð Oxide Nanocrystals with Perovskite and Nonperovskite Structures. Small, 2022, 18, .	10.0	7
2	On the Reaction Pathways and Growth Mechanisms of LiNbO3 Nanocrystals from the Non-Aqueous Solvothermal Alkoxide Route. Nanomaterials, 2021, 11, 154.	4.1	14
3	Gold-seeded Lithium Niobate Nanoparticles: Influence of Gold Surface Coverage on Second Harmonic Properties. Nanomaterials, 2021, 11, 950.	4.1	7
4	Synthesis and Characterization of Novel Nanoparticles of Lithium Aluminum Iodate LiAl(IO3)4, and DFT Calculations of the Crystal Structure and Physical Properties. Nanomaterials, 2021, 11, 3289.	4.1	3
5	Photocontrolled Release of the Anticancer Drug Chlorambucil with Caged Harmonic Nanoparticles. Helvetica Chimica Acta, 2020, 103, e1900251.	1.6	21
6	Multiorder Nonlinear Mixing in Metal Oxide Nanoparticles. Nano Letters, 2020, 20, 8725-8732.	9.1	20
7	Dispersion of the nonlinear susceptibility of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">WS</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> from second-harmonic scattering spectroscopy. Physical Review B, 2020, 102, .	3.2	6
8	Wavelength-Selective Nonlinear Imaging and Photo-Induced Cell Damage by Dielectric Harmonic Nanoparticles. ACS Nano, 2020, 14, 4087-4095.	14.6	13
9	Two-Photon-Triggered Photorelease of Caged Compounds from Multifunctional Harmonic Nanoparticles. ACS Applied Materials & Interfaces, 2019, 11, 27443-27452.	8.0	24
10	Microwave Synthesis and Up-Conversion Properties of SHG-Active Î±-(La,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 Td (Er)(IO<sub>3</	4.0	12
11	Synthesis, Characterization, and Crystal Structure Determination of a New Lithium Zinc Iodate Polymorph LiZn(IO3)3. Crystals, 2019, 9, 464.	2.2	12
12	Dual light-emitting Yb3+,Er3+-doped La(IO3)3 iodate nanocrystals: up-conversion and second harmonic generation. MRS Communications, 2019, 9, 1221-1226.	1.8	4
13	Second harmonic spectroscopy of ZnO, BiFeO₃ and LiNbO₃ nanocrystals. Optical Materials Express, 2019, 9, 1955.	3.0	24
14	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
15	Preparation and Preliminary Nonlinear Optical Properties of BiFeO₃ Nanocrystal Suspensions from a Simple, Chelating Agent-Free Precipitation Route. Journal of Nanomaterials, 2018, 2018, 1-9.	2.7	3
16	Image Correlation Spectroscopy with Second Harmonic Generating Nanoparticles in Suspension and in Cells. Journal of Physical Chemistry Letters, 2018, 9, 6112-6118.	4.6	10
17	Averaged third-order susceptibility of ZnO nanocrystals from Third Harmonic Generation and Third Harmonic Scattering. Optical Materials, 2018, 84, 579-585.	3.6	13
18	Wavelength Dependence of the Second-Order Nonlinear Susceptibility of Harmonic Nanoparticles. , 2018, , .		0

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19	Preparation from a revisited wet chemical route of phase-pure, monocrystalline and SHG-efficient BiFeO3 nanoparticles for harmonic bio-imaging. Scientific Reports, 2018, 8, 10473.	3.3	18
20	Dielectric Nanoparticles Excited at Telecom Wavelengths as Multiharmonic Multicolor Sources. , 2018, , .		0
21	Integrating plasmonic metals and 2D transition metal dichalcogenides for enhanced nonlinear frequency conversion. , 2018, , .		0
22	Nonlinear optical susceptibility of two-dimensional WS_2 measured by hyper Rayleigh scattering. Optics Letters, 2017, 42, 5018.	3.3	12
23	Multi-Order Investigation of the Nonlinear Susceptibility Tensors of Individual Nanoparticles. Scientific Reports, 2016, 6, 25415.	3.3	16
24	Nonlinear optical properties of silicon carbide (SiC) nanoparticles by carbothermal reduction. , 2016, , .		2
25	Cellular uptake and biocompatibility of bismuth ferrite harmonic advanced nanoparticles. Nanomedicine: Nanotechnology, Biology, and Medicine, 2015, 11, 815-824.	3.3	33
26	Harmonic nanoparticles: noncentrosymmetric metal oxides for nonlinear optics. Journal of Optics (United Kingdom), 2015, 17, 033001.	2.2	36
27	Nonlinear optical and magnetic properties of BiFeO3 harmonic nanoparticles. Journal of Applied Physics, 2014, 116, .	2.5	32
28	Towards a One-Step Synthesis and Encapsulation of Acentric Iron Iodate (Fe(IO₃)₃) Nanocrystals via Inverse Miniemulsion. Science of Advanced Materials, 2014, 6, 102-110.	0.7	1
29	Preparation of transparent PMMA/Fe(IO₃)₃ nanocomposite films from microemulsion polymerization. Journal of Applied Polymer Science, 2013, 130, 1203-1211.	2.6	5
30	Polymer encapsulation of inorganic nanoparticles for biomedical applications. International Journal of Pharmaceutics, 2013, 458, 230-241.	5.2	77
31	Characterization of the nonlinear optical properties of nanocrystals by Hyper Rayleigh Scattering. Journal of Nanobiotechnology, 2013, 11, S8.	9.1	44
32	Aminodextran-coated potassium niobate (KNbO3) nanocrystals for second harmonic bio-imaging. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 439, 131-137.	4.7	18
33	Individual inorganic nanoparticles: preparation, functionalization and in vitro biomedical diagnostic applications. Journal of Materials Chemistry B, 2013, 1, 1381.	5.8	110
34	Toxicological consequences of extracting KNbO3 and BaTiO3 nanoparticles from water using ionic liquids. RSC Advances, 2013, 3, 9223.	3.6	2
35	Temperature-dependent adsorption of surfactant molecules and associated crystallization kinetics of noncentrosymmetric Fe(IO3)3 nanorods in microemulsions. Materials Research Bulletin, 2013, 48, 4431-4437.	5.2	3
36	Harmonic nanoparticles for nonlinar bio-imaging and detection. Proceedings of SPIE, 2013, , .	0.8	0

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37	Highâ€Speed Tracking of Murine Cardiac Stem Cells by Harmonic Nanodoublers. Small, 2012, 8, 2752-2756.	10.0	34
38	SHG Active Fe(IO₃)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
39	Harmonic Nanocrystals for Biolabeling: A Survey of Optical Properties and Biocompatibility. ACS Nano, 2012, 6, 2542-2549.	14.6	174
40	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
41	Ensemble and Individual Characterization of the Nonlinear Optical Properties of ZnO and BaTiO₃ Nanocrystals. Journal of Physical Chemistry C, 2011, 115, 15140-15146.	3.1	54
42	Optimization of the piezoelectric response of 0â€“3 composites: a modeling approach. Smart Materials and Structures, 2011, 20, 115006.	3.5	12
43	An inexpensive nonlinear medium for intense ultrabroadband pulse characterization. Applied Physics B: Lasers and Optics, 2009, 97, 537-540.	2.2	9
44	Nanodoublers as deep imaging markers for multi-photon microscopy. Optics Express, 2009, 17, 15342.	3.4	71
45	Nano-FROG: Frequency resolved optical gating by a nanometric object. Optics Express, 2008, 16, 10405.	3.4	45
46	Polarization sensitive two-photon microscopy of nanometric Fe(IO<inf>3</inf>)<inf>3</inf> crystals. , 2007, , .		0
47	Development and characterization of nanocomposite materials. Materials Science and Engineering C, 2007, 27, 1260-1264.	7.3	28
48	Polar Fe(IO3)3 nanocrystals as local probes for nonlinear microscopy. Applied Physics B: Lasers and Optics, 2007, 87, 399-403.	2.2	98
49	Synthesis and characterisation of Fe(IO3)3 nanosized powder. Journal of Alloys and Compounds, 2006, 416, 261-264.	5.5	22
50	Second-Harmonic Generation Imaging of LiIO3/Laponite Nanocomposite Waveguides. Japanese Journal of Applied Physics, 2006, 45, 7525-7530.	1.5	9
51	Orientation of LiIO3Nanocrystals in Laponite Matrix for Periodically Structured Non-Linear Waveguides. Ferroelectrics, 2005, 320, 25-33.	0.6	0
52	SFM and EFM Studies on a Clay-Based Dielectric Nanocomposite. Ferroelectrics, 2005, 320, 51-57.	0.6	0
53	Lithium iodate nanocrystals in Laponite matrixfor nonlinear optical applications. Applied Physics Letters, 2004, 85, 710-711.	3.3	13
54	LiIO3/SiO2 nanocomposite for quadratic non-linear optical applications. Journal of Non-Crystalline Solids, 2004, 341, 152-156.	3.1	7

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55	LiIO 3 nanocrystals in SiO 2 xerogels, a new material for nonlinear optics. , 2003, 5222, 26.		2
56	Haemocompatibility evaluation of DLC- and SiC-coated surfaces. , 2003, 5, 17-28.		68
57	Low-Frequency Relaxation Phenomena in Î±-LiIO3: The Nature and Role of Defects. Journal of Solid State Chemistry, 2002, 168, 76-84.	2.9	11
58	LiIO3: growth and properties for optical and photoluminescent applications. Optical Materials, 2002, 19, 33-35.	3.6	5
59	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
60	Relaxation phenomena in lithium iodate crystals. Ferroelectrics, 2001, 257, 141-146.	0.6	4
61	Dielectric characterization and ionic conductivity of Î±-LiIO3 crystals related to the growth conditions. Solid State Communications, 2000, 115, 619-623.	1.9	14
62	Comparative study of electrical behavior and phase transitions in pure and chromium doped Î±-LiIO3single crystals. Radiation Effects and Defects in Solids, 1999, 150, 333-340.	1.2	3
63	Gd3+-Functionalized Lithium Niobate Nanoparticles for Dual Multiphoton and Magnetic Resonance Bioimaging. ACS Applied Nano Materials, 0, , .	5.0	5