

Mirco Imlau

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

383
citations

840776

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31
docs citations

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times ranked

393
citing authors

#	ARTICLE	IF	CITATIONS
1	Thin Patterned Lithium Niobate Films by Parallel Additive Capillary Stamping of Aqueous Precursor Solutions. <i>Advanced Engineering Materials</i> , 2022, 24, 2101159.	3.5	3
2	Ca ²⁺ -activated sphingomyelin scrambling and turnover mediate ESCRT-independent lysosomal repair. <i>Nature Communications</i> , 2022, 13, 1875.	12.8	35
3	Time-Resolved Nonlinear Diffuse Femtosecond-Pulse Reflectometry Using Lithium Niobate Nanoparticles with Two Pulses of Different Colors. <i>Advanced Photonics Research</i> , 2021, 2, 2000019.	3.6	4
4	A modular optical honeycomb breadboard realized with 3D-printable building bricks and industrial aluminum extrusions. <i>HardwareX</i> , 2021, 9, e00182.	2.2	6
5	In-vivo tracking of harmonic nanoparticles: a study based on a TIGER widefield microscope [Invited]. <i>Optical Materials Express</i> , 2021, 11, 1953.	3.0	8
6	NIR-to-NIR Imaging: Extended Excitation Up to 2.2 μ m Using Harmonic Nanoparticles with a Tunable hIGH Energy (TIGER) Widefield Microscope. <i>Nanomaterials</i> , 2021, 11, 3193.	4.1	12
7	Small-Polaron Hopping and Low-Temperature (45 μ 225 K) Photo-Induced Transient Absorption in Magnesium-Doped Lithium Niobate. <i>Crystals</i> , 2020, 10, 809.	2.2	9
8	The role of cations in hydrothermal synthesis of nonlinear optical sodium niobate nanocrystals. <i>Nanoscale</i> , 2020, 12, 19223-19229.	5.6	8
9	Synthesis, structural investigation and NLO properties of three 1,2,4-triazole Schiff bases. <i>Journal of Molecular Structure</i> , 2020, 1219, 128492.	3.6	18
10	Inspection of Trivalent Chromium Conversion Coatings Using Laser Light: The Unexpected Role of Interference on Cold-Rolled Aluminium. <i>Sensors</i> , 2020, 20, 2164.	3.8	5
11	An Open Source IoT Framework for a Distributed Modular Low-cost Laser-based Sensing Platform. , 2020, , .		1
12	Combining photoinduced linkage isomerism and nonlinear optical properties in ruthenium nitrosyl complexes. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2019, 75, 1152-1163.	1.1	20
13	Absorption and Remission Characterization of Pure, Dielectric (Nano-)Powders Using Diffuse Reflectance Spectroscopy: An End-To-End Instruction. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4933.	2.5	37
14	Nonlinear optical organic-inorganic crystals: synthesis, structural analysis and verification of harmonic generation in tri-(<i>o</i> -chloroanilinium nitrate). <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2019, 75, 107-114.	0.1	6
15	Pulse-induced transient blue absorption related with long-lived excitonic states in iron-doped lithium niobate. <i>Optical Materials Express</i> , 2019, 9, 2748.	3.0	6
16	Nonlinear optical potassium niobate nanocrystals as harmonic markers: the role of precursors and stoichiometry in hydrothermal synthesis. <i>Nanoscale</i> , 2018, 10, 10713-10720.	5.6	8
17	Dynamic-grating-assisted energy transfer between ultrashort laser pulses in lithium niobate. <i>Optics Express</i> , 2018, 26, 21558.	3.4	1
18	Chirp control of femtosecond-pulse scattering from drag-reducing surface-relief gratings. <i>Photonics Research</i> , 2018, 6, 542.	7.0	11

#	ARTICLE	IF	CITATIONS
19	Small Polaron Hopping in Fe:LiNbO ₃ as a Function of Temperature and Composition. Crystals, 2018, 8, 294.	2.2	14
20	Picosecond near-to-mid-infrared absorption of pulse-injected small polarons in magnesium doped lithium niobate. Optical Materials Express, 2018, 8, 1505.	3.0	11
21	A microscopic insight on light-induced polaron conduction in Fe:LiNbO ₃ , 2017, , .		0
22	Nonlinear Diffuse fs-Pulse Reflectometry of Harmonic Upconversion Nanoparticles. Photonics, 2017, 4, 11.	2.0	17
23	Transient energy transfer on the femtosecond timescale in lithium niobate. , 2017, , .		0
24	Fs-pulse propagation in presence of self-trapped excitons. , 2017, , .		0
25	Optical Riblet Sensor: Beam Parameter Requirements for the Probing Laser Source. Sensors, 2016, 16, 458.	3.8	8
26	Atomic insight to lattice distortions caused by carrier self-trapping in oxide materials. Scientific Reports, 2016, 6, 36929.	3.3	14
27	Optical nonlinearities of small polarons in lithium niobate. Applied Physics Reviews, 2015, 2, 040606.	11.3	65
28	Interference and holography with femtosecond laser pulses of different colours. Nature Communications, 2015, 6, 5866.	12.8	23
29	Holographic Spectroscopy: Wavelength-Dependent Analysis of Photosensitive Materials by Means of Holographic Techniques. Materials, 2013, 6, 334-358.	2.9	10
30	Transition Metal Compounds Towards Holography. Materials, 2012, 5, 1155-1175.	2.9	20