

Mirco Imlau

List of Publications by Year in descending order

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papers

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840776

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31
all docs

31
docs citations

31
times ranked

393
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical nonlinearities of small polarons in lithium niobate. Applied Physics Reviews, 2015, 2, 040606.	11.3	65
2	Absorption and Remission Characterization of Pure, Dielectric (Nano-)Powders Using Diffuse Reflectance Spectroscopy: An End-To-End Instruction. Applied Sciences (Switzerland), 2019, 9, 4933.	2.5	37
3	Ca ²⁺ -activated sphingomyelin scrambling and turnover mediate ESCRT-independent lysosomal repair. Nature Communications, 2022, 13, 1875.	12.8	35
4	Interference and holography with femtosecond laser pulses of different colours. Nature Communications, 2015, 6, 5866.	12.8	23
5	Transition Metal Compounds Towards Holography. Materials, 2012, 5, 1155-1175.	2.9	20
6	Combining photoinduced linkage isomerism and nonlinear optical properties in ruthenium nitrosyl complexes. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2019, 75, 1152-1163.	1.1	20
7	Synthesis, structural investigation and NLO properties of three 1,2,4-triazole Schiff bases. Journal of Molecular Structure, 2020, 1219, 128492.	3.6	18
8	Nonlinear Diffuse fs-Pulse Reflectometry of Harmonic Upconversion Nanoparticles. Photonics, 2017, 4, 11.	2.0	17
9	Atomic insight to lattice distortions caused by carrier self-trapping in oxide materials. Scientific Reports, 2016, 6, 36929.	3.3	14
10	Small Polaron Hopping in Fe:LiNbO ₃ as a Function of Temperature and Composition. Crystals, 2018, 8, 294.	2.2	14
11	NIR-to-NIR Imaging: Extended Excitation Up to 2.2 μ m Using Harmonic Nanoparticles with a Tunable hiCh EneRgy (TIGER) Widefield Microscope. Nanomaterials, 2021, 11, 3193.	4.1	12
12	Chirp control of femtosecond-pulse scattering from drag-reducing surface-relief gratings. Photonics Research, 2018, 6, 542.	7.0	11
13	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
14	Holographic Spectroscopy: Wavelength-Dependent Analysis of Photosensitive Materials by Means of Holographic Techniques. Materials, 2013, 6, 334-358.	2.9	10
15	Small-Polaron Hopping and Low-Temperature (45 μ –225 K) Photo-Induced Transient Absorption in Magnesium-Doped Lithium Niobate. Crystals, 2020, 10, 809.	2.2	9
16	Optical Riblet Sensor: Beam Parameter Requirements for the Probing Laser Source. Sensors, 2016, 16, 458.	3.8	8
17	Nonlinear optical potassium niobate nanocrystals as harmonic markers: the role of precursors and stoichiometry in hydrothermal synthesis. Nanoscale, 2018, 10, 10713-10720.	5.6	8
18	The role of cations in hydrothermal synthesis of nonlinear optical sodium niobate nanocrystals. Nanoscale, 2020, 12, 19223-19229.	5.6	8

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	A modular optical honeycomb breadboard realized with 3D-printable building bricks and industrial aluminum extrusions. <i>HardwareX</i> , 2021, 9, e00182.	2.2	6
22	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
23	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
24	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
25	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
26	Dynamic-grating-assisted energy transfer between ultrashort laser pulses in lithium niobate. <i>Optics Express</i> , 2018, 26, 21558.	3.4	1
27	An Open Source IoT Framework for a Distributed Modular Low-cost Laser-based Sensing Platform. , 2020, , .		1
28	A microscopic insight on light-induced polaron conduction in Fe:LiNbO ₃ . , 2017, , .		0
29	Transient energy transfer on the femtosecond timescale in lithium niobate. , 2017, , .		0
30	Fs-pulse propagation in presence of self-trapped excitons. , 2017, , .		0