

Maciej Lorenc

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5687336/publications.pdf>

Version: 2024-02-01

29
papers

1,462
citations

361413

20
h-index

414414

32
g-index

33
all docs

33
docs citations

33
times ranked

1607
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamical limits for the molecular switching in a photoexcited material revealed by X-ray diffraction. <i>Communications Physics</i> , 2022, 5, .	5.3	3
2	Nitro End Groups: Remarkable Vibrational Reporters for Charge Transfer in the Excited States of Oligo(<i>p</i> -phenyleneethynylene)-Bridged Donor–Acceptor Dyads. <i>Journal of Physical Chemistry C</i> , 2020, 124, 9755-9764.	3.1	4
3	Finite Size Effects on the Switching Dynamics of Spin–Crossover Thin Films Photoexcited by a Femtosecond Laser Pulse. <i>Advanced Materials</i> , 2019, 31, e1901361.	21.0	42
4	Temperature dependence of the cooperative out-of-equilibrium elastic switching in a spin-crossover material. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 6606-6612.	2.8	12
5	Electronic and Structural Dynamics During the Switching of the Photomagnetic Complex [Fe(L ₂₂₂ N ₅)(CN) ₂]. <i>Chemistry - A European Journal</i> , 2018, 24, 5064-5069.	3.3	13
6	Light-induced spin crossover—Solution and solid-state processes. <i>Comptes Rendus Chimie</i> , 2018, 21, 1075-1094.	0.5	63
7	Light-Induced Spin State Switching in Copper(II)-Nitroxide-Based Molecular Magnet at Room Temperature. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5587-5592.	4.6	19
8	Theoretical approach for elastically driven cooperative switching of spin-crossover compounds impacted by an ultrashort laser pulse. <i>Physical Review B</i> , 2017, 95, .	3.2	28
9	Two-Step Photon Absorption Driving the Chemical Reaction in the Model Ruthenium Nitrosyl System [Ru(py) ₄ Cl(NO)](PF ₆) ₂ ·H ₂ O. <i>Inorganic Chemistry</i> , 2016, 55, 4117-4123.	4.0	28
10	Elastically driven cooperative response of a molecular material impacted by a laser pulse. <i>Nature Materials</i> , 2016, 15, 606-610.	27.5	120
11	Ultrafast Light-Induced Spin-State Trapping Photophysics Investigated in Fe(phen) ₂ (NCS) ₂ Spin-Crossover Crystal. <i>Accounts of Chemical Research</i> , 2015, 48, 774-781.	15.6	85
12	Sequential Activation of Molecular Breathing and Bending during Spin-Crossover Photoswitching Revealed by Femtosecond Optical and X-Ray Absorption Spectroscopy. <i>Physical Review Letters</i> , 2014, 113, 227402.	7.8	115
13	The Role of Ligand–Field States in the Ultrafast Photophysical Cycle of the Prototypical Iron(II) Spin–Crossover Compound [Fe(ptz) ₆](BF ₄) ₂ . <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3863-3867.	13.8	67
14	Controversy in linearity assumption for reflectivity of metals upon non-equilibrium electron heating revisited with ultrafast broadband spectroscopy. <i>Optical Materials</i> , 2014, 36, 1765-1767.	3.6	2
15	Ultrafast Photoswitching in a Copper–Nitroxide–Based Molecular Magnet. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 10636-10640.	13.8	58
16	Femtosecond optical pump–probe reflectivity studies of spin-state photo-switching in the spin-crossover molecular crystals [Fe(PM-Aza) ₂ (NCS) ₂]. <i>Polyhedron</i> , 2013, 66, 123-128.	2.2	26
17	Spin–State Photoswitching Dynamics of the [(TPA)Fe(TCC)]SbF ₆ Complex. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 992-1000.	2.0	11
18	Probing Charge-Transfer Excited States in a Quasi-Nonluminescent Electron-Rich Fe(II)–Acetylide Complex by Femtosecond Optical Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2012, 116, 3719-3727.	3.1	12

#	ARTICLE	IF	CITATIONS
19	Ultrafast spin-state photoswitching in a crystal and slower consecutive processes investigated by femtosecond optical spectroscopy and picosecond X-ray diffraction. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 6192.	2.8	79
20	Femtosecond Spin-State Photoswitching of Molecular Nanocrystals Evidenced by Optical Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7485-7489.	13.8	69
21	100â€¦Picosecond Diffraction Catches Structural Transients of Laser-Pulse Triggered Switching in a Spin-Crossover Crystal. <i>Chemistry - A European Journal</i> , 2012, 18, 2051-2055.	3.3	50
22	Structural dynamics of photoinduced molecular switching in the solid state. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2010, 66, 189-197.	0.3	65
23	Polymorphism in the spin-crossover ferric complexes [(TPA)Fe ^{III} (TCC)]PF ₆ . <i>Acta Crystallographica Section B: Structural Science</i> , 2009, 65, 474-480.	1.8	43
24	Towards ultrafast spin-state switching in the solid state. <i>Comptes Rendus Chimie</i> , 2008, 11, 1235-1240.	0.5	17
25	Capturing Transient Structures in the Elimination Reaction of Haloalkane in Solution by Transient X-ray Diffraction. <i>Journal of the American Chemical Society</i> , 2008, 130, 5834-5835.	13.7	54
26	Femtosecond laser near-field ablation from gold nanoparticles. <i>Nature Physics</i> , 2006, 2, 44-47.	16.7	227
27	Spatiotemporal reaction kinetics of an ultrafast photoreaction pathway visualized by time-resolved liquid x-ray diffraction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 9410-9415.	7.1	64
28	Photodissociation Reaction of 1,2-Diiodoethane in Solution: A Theoretical and X-ray Diffraction Study. <i>Journal of Physical Chemistry A</i> , 2005, 109, 10451-10458.	2.5	28
29	Mechanism and deactivation kinetics of S ₂ -xanthione in acetonitrile, a quenching solvent, and of S ₂ -exciplex measured by pico- and femtosecond laser spectroscopy. <i>Chemical Physics Letters</i> , 2001, 346, 224-232.	2.6	24