

# Maciej Lorenc

## List of Publications by Year in descending order

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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	Femtosecond laser near-field ablation from gold nanoparticles. <i>Nature Physics</i> , 2006, 2, 44-47.	16.7	227
2	Elastically driven cooperative response of a molecular material impacted by a laser pulse. <i>Nature Materials</i> , 2016, 15, 606-610.	27.5	120
3	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
4	Ultrafast Light-Induced Spin-State Trapping Photophysics Investigated in Fe(phen) <sub>2</sub> (NCS) <sub>2</sub> Spin-Crossover Crystal. <i>Accounts of Chemical Research</i> , 2015, 48, 774-781.	15.6	85
5	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
6	Femtosecond Spin-State Photoswitching of Molecular Nanocrystals Evidenced by Optical Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7485-7489.	13.8	69
7	The Role of Ligand-Field States in the Ultrafast Photophysical Cycle of the Prototypical Iron(II) Spin-Crossover Compound [Fe(ptz) <sub>6</sub> ](BF <sub>4</sub> ) <sub>2</sub> . <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3863-3867.	13.8	67
8	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
9	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
10	Light-induced spin crossover—Solution and solid-state processes. <i>Comptes Rendus Chimie</i> , 2018, 21, 1075-1094.	0.5	63
11	Ultrafast Photoswitching in a Copper-Nitroxide-Based Molecular Magnet. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 10636-10640.	13.8	58
12	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
13	100...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
14	Polymorphism in the spin-crossover ferric complexes [(TPA)Fe <sup>III</sup> (TCC)]PF <sub>6</sub> . <i>Acta Crystallographica Section B: Structural Science</i> , 2009, 65, 474-480.	1.8	43
15	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
16	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
17	Two-Step Photon Absorption Driving the Chemical Reaction in the Model Ruthenium Nitrosyl System [Ru(py) <sub>4</sub> Cl(NO)](PF <sub>6</sub> ) <sub>2</sub> ·H <sub>2</sub> O. <i>Inorganic Chemistry</i> , 2016, 55, 4117-4123.	4.0	28
18	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

#	ARTICLE	IF	CITATIONS
19	Femtosecond optical pump-probe reflectivity studies of spin-state photo-switching in the spin-crossover molecular crystals [Fe(PM-AzA) <sub>2</sub> (NCS) <sub>2</sub> ]. Polyhedron, 2013, 66, 123-128.	2.2	26
20	Mechanism and deactivation kinetics of S2-xanthione in acetonitrile, a quenching solvent, and of S2-exciple measured by pico- and femtosecond laser spectroscopy. Chemical Physics Letters, 2001, 346, 224-232.	2.6	24
21	Light-Induced Spin State Switching in Copper(II)-Nitroxide-Based Molecular Magnet at Room Temperature. Journal of Physical Chemistry Letters, 2017, 8, 5587-5592.	4.6	19
22	Towards ultrafast spin-state switching in the solid state. Comptes Rendus Chimie, 2008, 11, 1235-1240.	0.5	17
23	Electronic and Structural Dynamics During the Switching of the Photomagnetic Complex [Fe(L <sub>222</sub> N <sub>5</sub> )(CN) <sub>2</sub> ]. Chemistry - A European Journal, 2018, 24, 5064-5069.	3.3	13
24	Probing Charge-Transfer Excited States in a Quasi-Nonluminescent Electron-Rich Fe(II)-Acetylide Complex by Femtosecond Optical Spectroscopy. Journal of Physical Chemistry C, 2012, 116, 3719-3727.	3.1	12
25	Temperature dependence of the cooperative out-of-equilibrium elastic switching in a spin-crossover material. Physical Chemistry Chemical Physics, 2019, 21, 6606-6612.	2.8	12
26	Spin-State Photoswitching Dynamics of the [(TPA)Fe(TCC)]SbF <sub>6</sub> Complex. European Journal of Inorganic Chemistry, 2013, 2013, 992-1000.	2.0	11
27	Nitro End Groups: Remarkable Vibrational Reporters for Charge Transfer in the Excited States of Oligo( <i>p</i> -phenyleneethynylene)-Bridged Donor-Acceptor Dyads. Journal of Physical Chemistry C, 2020, 124, 9755-9764.	3.1	4
28	Dynamical limits for the molecular switching in a photoexcited material revealed by X-ray diffraction. Communications Physics, 2022, 5, .	5.3	3
29	Controversy in linearity assumption for reflectivity of metals upon non-equilibrium electron heating revisited with ultrafast broadband spectroscopy. Optical Materials, 2014, 36, 1765-1767.	3.6	2