

# Laurent Guerin

## List of Publications by Year in descending order

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45  
papers

1,461  
citations

567281

15  
h-index

315739

38  
g-index

50  
all docs

50  
docs citations

50  
times ranked

1866  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gigantic Photoresponse in 1/4-Filled-Band Organic Salt (EDO-TTF) <sub>2</sub> PF <sub>6</sub> . <i>Science</i> , 2005, 307, 86-89.	12.6	315
2	Transient photoinduced $\pi$ - $\pi^*$ phase in $\alpha$ -Manganite. <i>Nature Materials</i> , 2011, 10, 101-105.	27.5	216
3	Protein Structural Dynamics of Photoactive Yellow Protein in Solution Revealed by Pump-Probe X-ray Solution Scattering. <i>Journal of the American Chemical Society</i> , 2012, 134, 3145-3153.	13.7	95
4	First Step Towards a Devil's Staircase in Spin-Crossover Materials. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8675-8679.	13.8	94
5	Photoinduced spin transition probed by x-ray diffraction. <i>Physical Review B</i> , 2004, 69, .	3.2	93
6	Developing 100-ps-resolved X-ray structural analysis capabilities on beamline NW14A at the Photon Factory Advanced Ring. <i>Journal of Synchrotron Radiation</i> , 2007, 14, 313-319.	2.4	93
7	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
8	Filming the Birth of Molecules and Accompanying Solvent Rearrangement. <i>Journal of the American Chemical Society</i> , 2013, 135, 3255-3261.	13.7	59
9	Bond Shortening (1.4 Å..) in the Singlet and Triplet Excited States of [Ir <sub>2</sub> (dimen) <sub>4</sub> ] <sup>2+</sup> in Solution Determined by Time-Resolved X-ray Scattering. <i>Inorganic Chemistry</i> , 2011, 50, 9329-9336.	4.0	53
10	Probing photoinduced phase transition in a charge-transfer molecular crystal by 100 picosecond X-ray diffraction. <i>Chemical Physics</i> , 2004, 299, 163-170.	1.9	51
11	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
12	Capturing One-Dimensional Precursors of a Photoinduced Transformation in a Material. <i>Physical Review Letters</i> , 2010, 105, 246101.	7.8	42
13	Direct Observation of Acoustic Oscillations in InAs Nanowires. <i>Nano Letters</i> , 2010, 10, 2461-2465.	9.1	39
14	Strain wave pathway to semiconductor-to-metal transition revealed by time-resolved X-ray powder diffraction. <i>Nature Communications</i> , 2021, 12, 1239.	12.8	29
15	Optically Visible Phase Separation between Mott-Hubbard and Charge-Density-Wave Domains in a Pd-Br Chain Complex. <i>ChemistrySelect</i> , 2016, 1, 259-263.	1.5	18
16	Identifying the major intermediate species by combining time-resolved X-ray solution scattering and X-ray absorption spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 23298-23302.	2.8	15
17	Mixed Acoustic Phonons and Phase Modes in an Aperiodic Composite Crystal. <i>Physical Review Letters</i> , 2011, 107, 205502.	7.8	14
18	Critical phenomena in higher dimensional spaces: The hexagonal-to-orthorhombic phase transition in aperiodic-nonadecane/urea. <i>Physical Review B</i> , 2013, 87, .	3.2	13

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19	Confined linear molecules inside an aperiodic supramolecular crystal: The sequence of superspace phases in <i>n</i> -hexadecane/urea. <i>Journal of Chemical Physics</i> , 2011, 135, 204505.	3.0	11
20	Picosecond time-resolved x-ray reflectivity of a laser-heated amorphous carbon film. <i>Applied Physics Letters</i> , 2011, 98, 101909.	3.3	11
21	Spin State Photoswitching Dynamics of the [(TPA)Fe(TCC)]SbF <sub>6</sub> Complex. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 992-1000.	2.0	11
22	Neutron Laue and X-ray diffraction study of a new crystallographic superspace phase in <i>n</i> -nonadecane/urea. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2015, 71, 293-299.	1.1	10
23	Time-resolved X-ray diffraction: a wonderful tool for probing structural photo-induced phase transitions. <i>Journal of Luminescence</i> , 2005, 112, 235-241.	3.1	8
24	Long-range modulation of a composite crystal in a five-dimensional superspace. <i>Physical Review B</i> , 2015, 91, .	3.2	6
25	The creation of modulated monoclinic aperiodic composites in <i>n</i> -alkane/urea compounds. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2015, 230, 5-11.	0.8	6
26	Elucidating 2D Charge Density Wave Atomic Structure in an MX <sub>2</sub> Chain by the 3D Pair Distribution Function Method**. <i>ChemPhysChem</i> , 2022, 23, .	2.1	6
27	Comment on "The true structural periodicities and superspace group descriptions of the prototypical incommensurate composite materials: Alkane/urea inclusion compounds" by Couzi M. et al.. <i>Europhysics Letters</i> , 2017, 119, 66004.	2.0	5
28	Time-resolved investigation of nanometer scale deformations induced by a high flux x-ray beam. <i>Optics Express</i> , 2011, 19, 15516.	3.4	4
29	Giant Nernst effect in the incommensurate charge density wave state of P4W12O44. <i>Physical Review B</i> , 2016, 94, .	3.2	4
30	Structural investigation of the photoinduced spin transition in the three states molecular system [Fe(2-pic)3]Cl2EtOH. <i>Journal of Physics: Conference Series</i> , 2005, 21, 136-141.	0.4	3
31	Tracking Atomic Positions in Molecular Reactions by Picosecond X-ray Scattering at the ESRF. <i>Synchrotron Radiation News</i> , 2012, 25, 25-31.	0.8	3
32	Frustrated pretransitional phenomena in aperiodic composites. <i>Physical Review B</i> , 2016, 94, .	3.2	3
33	Comment on Couzi et al. (2018): a phenomenological model for structural transitions in incommensurate alkane/urea inclusion compounds. <i>Royal Society Open Science</i> , 2019, 6, 182073.	2.4	3
34	High spatial resolution studies of phase transitions within organic aperiodic crystals. <i>Physical Review B</i> , 2020, 101, .	3.2	3
35	Phase transition in (EDO-TTF)2PF6: domain growth in the thermal hysteresis and ultra-fast photoinduced effects. <i>Journal of Physics: Conference Series</i> , 2005, 21, 149-154.	0.4	2
36	Ultra-fast and sensitive photo-induced phase switching in (EDO-TTF)2PF6. <i>Journal of Luminescence</i> , 2005, 112, 275-278.	3.1	2

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37	Crystallography and dynamics in superspace. EPJ Web of Conferences, 2017, 155, 00004.	0.3	2
38	Current status of 50-picosecond resolved x-ray diffraction at Photon Factory Advanced Ring (PF-AR). Journal of Physics: Conference Series, 2005, 21, 101-105.	0.4	1
39	Phonons in an aperiodic alkane/urea composite crystal studied by inelastic x-ray scattering. Physical Review B, 2018, 98, .	3.2	1
40	Shifting photo-stationary light-induced excited spin state trapping equilibrium towards higher temperature by increasing light fluence. Chemical Physics Letters, 2022, 791, 139395.	2.6	1
41	Ultrafast photo-induced metal-insulator transition in 1/4 filled organic crystal (EDO-TTF)2PF6. Journal of Physics: Conference Series, 2005, 21, 130-135.	0.4	0
42	Pulsed synchrotron x-ray as a tool for providing molecular movies at 100-picosecond temporal and sub-nanometer spatial resolution. Journal of Physics: Conference Series, 2009, 148, 012044.	0.4	0
43	100ps time-resolved X-ray diffraction study on Nd <sub>0.5</sub> Sr <sub>0.5</sub> MnO <sub>3</sub> thin film. Journal of Physics: Conference Series, 2009, 148, 012020.	0.4	0
44	100 ps time-resolved crystallographic investigation of the photoinduced phase transition in TFF-CA. European Physical Journal Special Topics, 2004, 114, 99-101.	0.2	0
45	Elucidating 2D Charge-Density-Wave Atomic Structure in an MX <sub>2</sub> Chain by the 3D Pair Distribution Function Method. ChemPhysChem, 2022, 23, e202200120.	2.1	0