

Laurent Guerin

List of Publications by Year in descending order

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45
papers

1,461
citations

567281

15
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315739

38
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all docs

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docs citations

50
times ranked

1866
citing authors

#	ARTICLE	IF	CITATIONS
1	Elucidating 2D Charge-Density-Wave Atomic Structure in an MX ₂ Chain by the 3D Pair Distribution Function Method**. ChemPhysChem, 2022, 23, .	2.1	6
2	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
3	Elucidating 2D Charge-Density-Wave Atomic Structure in an MX ₂ Chain by the 3D Pair Distribution Function Method. ChemPhysChem, 2022, 23, e202200120.	2.1	0
4	Strain wave pathway to semiconductor-to-metal transition revealed by time-resolved X-ray powder diffraction. Nature Communications, 2021, 12, 1239.	12.8	29
5	High spatial resolution studies of phase transitions within organic aperiodic crystals. Physical Review B, 2020, 101, .	3.2	3
6	Comment on Couzi et al. (2018): a phenomenological model for structural transitions in incommensurate alkane/urea inclusion compounds. Royal Society Open Science, 2019, 6, 182073.	2.4	3
7	Phonons in an aperiodic alkane/urea composite crystal studied by inelastic x-ray scattering. Physical Review B, 2018, 98, .	3.2	1
8	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.. Europhysics Letters, 2017, 119, 66004.	2.0	5
9	Crystallography and dynamics in superspace. EPJ Web of Conferences, 2017, 155, 00004.	0.3	2
10	First Step Towards a Devil's Staircase in Spin-Crossover Materials. Angewandte Chemie - International Edition, 2016, 55, 8675-8679.	13.8	94
11	Giant Nernst effect in the incommensurate charge density wave state of P4W12O44. Physical Review B, 2016, 94, .	3.2	4
12	Optically Visible Phase Separation between Mott-Hubbard and Charge-Density-Wave Domains in a Pd-Br Chain Complex. ChemistrySelect, 2016, 1, 259-263.	1.5	18
13	Frustrated pretransitional phenomena in aperiodic composites. Physical Review B, 2016, 94, .	3.2	3
14	Long-range modulation of a composite crystal in a five-dimensional superspace. Physical Review B, 2015, 91, .	3.2	6
15	The creation of modulated monoclinic aperiodic composites in n-alkane/urea compounds. Zeitschrift Fur Kristallographie - Crystalline Materials, 2015, 230, 5-11.	0.8	6
16	Neutron Laue and X-ray diffraction study of a new crystallographic superspace phase inn-nonadecane-urea. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2015, 71, 293-299.	1.1	10
17	Identifying the major intermediate species by combining time-resolved X-ray solution scattering and X-ray absorption spectroscopy. Physical Chemistry Chemical Physics, 2015, 17, 23298-23302.	2.8	15
18	Filming the Birth of Molecules and Accompanying Solvent Rearrangement. Journal of the American Chemical Society, 2013, 135, 3255-3261.	13.7	59

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19	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
20	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
21	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
22	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
23	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
24	Bond Shortening (1.4 Å..) in the Singlet and Triplet Excited States of [Ir ₂ (dimen) ₄] ²⁺ in Solution Determined by Time-Resolved X-ray Scattering. <i>Inorganic Chemistry</i> , 2011, 50, 9329-9336.	4.0	53
25	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
26	Transient photoinduced hidden phase in γ -Manganite. <i>Nature Materials</i> , 2011, 10, 101-105.	27.5	216
27	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
28	Mixed Acoustic Phonons and Phase Modes in an Aperiodic Composite Crystal. <i>Physical Review Letters</i> , 2011, 107, 205502.	7.8	14
29	Picosecond time-resolved x-ray reflectivity of a laser-heated amorphous carbon film. <i>Applied Physics Letters</i> , 2011, 98, 101909.	3.3	11
30	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
31	Capturing One-Dimensional Precursors of a Photoinduced Transformation in a Material. <i>Physical Review Letters</i> , 2010, 105, 246101.	7.8	42
32	Direct Observation of Acoustic Oscillations in InAs Nanowires. <i>Nano Letters</i> , 2010, 10, 2461-2465.	9.1	39
33	Pulsed synchrotron x-ray as a tool for providing molecular movies at 100-picosecond temporal and sub-nanometer spatial resolution. <i>Journal of Physics: Conference Series</i> , 2009, 148, 012044.	0.4	0
34	100ps time-resolved X-ray diffraction study on Nd _{0.5} Sr _{0.5} MnO ₃ thin film. <i>Journal of Physics: Conference Series</i> , 2009, 148, 012020.	0.4	0
35	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
36	Structural investigation of the photoinduced spin transition in the three states molecular system [Fe(2-pic) ₃]Cl ₂ EtOH. <i>Journal of Physics: Conference Series</i> , 2005, 21, 136-141.	0.4	3

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37	Phase transition in (EDO-TTF)2PF6: domain growth in the thermal hysteresis and ultra-fast photoinduced effects. Journal of Physics: Conference Series, 2005, 21, 149-154.	0.4	2
38	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
39	Ultra-fast and sensitive photo-induced phase switching in (EDO-TTF)2PF6. Journal of Luminescence, 2005, 112, 275-278.	3.1	2
40	Time-resolved X-ray diffraction: a wonderful tool for probing structural photo-induced phase transitions. Journal of Luminescence, 2005, 112, 235-241.	3.1	8
41	Gigantic Photoresponse in 1/4-Filled-Band Organic Salt (EDO-TTF)2PF6. Science, 2005, 307, 86-89.	12.6	315
42	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
43	Probing photoinduced phase transition in a charge-transfer molecular crystal by 100 picosecond X-ray diffraction. Chemical Physics, 2004, 299, 163-170.	1.9	51
44	Photoinduced spin transition probed by x-ray diffraction. Physical Review B, 2004, 69, .	3.2	93
45	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