

Angela Trapananti

List of Publications by Year in descending order

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80
papers

1,420
citations

331538

21
h-index

377752

34
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80
all docs

80
docs citations

80
times ranked

2162
citing authors

#	ARTICLE	IF	CITATIONS
1	Local Structure of Ga ₈₅ Sn ₁₅ Eutectic Alloy and Its Pressure-Temperature Melting Line. <i>Physica Status Solidi - Rapid Research Letters</i> , 2022, 16, 2100423.	1.2	1
2	First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. <i>Progress of Theoretical and Experimental Physics</i> , 2022, 2022, .	1.8	20
3	Effect of Applying a Carbon Coating on the Crystal Structure and De-/Lithiation Mechanism of Mn-Doped ZnO Lithium-Ion Anodes. <i>Journal of the Electrochemical Society</i> , 2021, 168, 030503.	1.3	8
4	Impact of Crystal Density on the Electrochemical Behavior of Lithium-Ion Anode Materials: Exemplary Investigation of (Fe-Doped) GeO ₂ . <i>Journal of Physical Chemistry C</i> , 2021, 125, 8947-8958.	1.5	5
5	Isovalent vs. aliovalent transition metal doping of zinc oxide lithium-ion battery anodes – in-depth investigation by ex situ and operando X-ray absorption spectroscopy. <i>Materials Today Chemistry</i> , 2021, 20, 100478.	1.7	10
6	Crystal and electronic structure of Co_3O_4 spinel under pressure probed by XANES and Raman spectroscopy. <i>Physical Review B</i> , 2021, 103, .	1.1	8
7	Structure of liquid In ₂₀ Sn ₈₀ at high temperature: a XAS study. <i>Radiation Physics and Chemistry</i> , 2020, 175, 108089.	1.4	1
8	Development of a high temperature diamond anvil cell for x ray absorption experiments under extreme conditions. <i>Radiation Physics and Chemistry</i> , 2020, 175, 108106.	1.4	4
9	Initial lithiation of carbon-coated zinc ferrite anodes studied by in-situ X-ray absorption spectroscopy. <i>Radiation Physics and Chemistry</i> , 2020, 175, 108468.	1.4	5
10	Structure rearrangements induced by lithium insertion in metal alloying oxide mixed spinel structure studied by x-ray absorption near-edge spectroscopy. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 136, 109172.	1.9	14
11	Potassium-Doped Para-Terphenyl: Structure, Electrical Transport Properties and Possible Signatures of a Superconducting Transition. <i>Condensed Matter</i> , 2020, 5, 78.	0.8	11
12	Broadband optical ultrafast reflectivity of Si, Ge and GaAs. <i>Scientific Reports</i> , 2020, 10, 17363.	1.6	7
13	Electrochemical Response and Structural Stability of the Li ⁺ Ion Battery Cathode with Coated LiMn ₂ O ₄ Nanoparticles. <i>ACS Applied Energy Materials</i> , 2020, 3, 8356-8365.	2.5	18
14	A new internally heated diamond anvil cell system for time-resolved optical and x-ray measurements. <i>Review of Scientific Instruments</i> , 2020, 91, 085114.	0.6	4
15	Photon beam line of the water window FEL for the EuPRAXIA@SPARC_LAB project. <i>Journal of Physics: Conference Series</i> , 2020, 1596, 012039.	0.3	2
16	Compression of liquid Ni and Co under extreme conditions explored by x-ray absorption spectroscopy. <i>Physical Review B</i> , 2019, 100, .	1.1	8
17	Unraveling the role of Ti in the stability of positive layered oxide electrodes for rechargeable Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14169-14179.	5.2	55
18	The Potential of EuPRAXIA@SPARC_LAB for Radiation Based Techniques. <i>Condensed Matter</i> , 2019, 4, 30.	0.8	12

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19	Structure and atomic correlations in molecular systems probed by XAS reverse Monte Carlo refinement. <i>Journal of Chemical Physics</i> , 2018, 148, .	1.2	13
20	gnxas: Advances in the Suite of Programs for Multiple-Scattering Analysis of X-ray Absorption Data. <i>Springer Proceedings in Physics</i> , 2018, , 221-256.	0.1	6
21	Electrochemical and structural investigation of transition metal doped V2O5 sono-aerogel cathodes for lithium metal batteries. <i>Solid State Ionics</i> , 2018, 319, 46-52.	1.3	16
22	Two-step growth mechanism of supported Co3O4-based sea-urchin like hierarchical nanostructures. <i>Applied Surface Science</i> , 2018, 439, 876-882.	3.1	8
23	Structural and Electrochemical Characterization of Zn1-xFexO Effect of Aliovalent Doping on the Li+ Storage Mechanism. <i>Materials</i> , 2018, 11, 49.	1.3	25
24	Thermodynamic stability and structure in aqueous solution of the [Cu(PTA)4]+ complex (PTA = 1,3,5-triaza-7-phosphaadamantane). <i>Journal of Inorganic Biochemistry</i> , 2018, 188, 50-61.	1.8	9
25	Pursuing the stabilisation of crystalline nanostructured magnetic manganites through a green low temperature hydrothermal synthesis. <i>Journal of Materials Chemistry C</i> , 2017, 5, 3359-3371.	2.7	15
26	An investigation of the structure of liquid Zn by X-ray absorption spectroscopy. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017, 411, 68-71.	0.6	5
27	Possible Mechanism for Hole Conductivity in CuAsTe Thermoelectric Glasses: A XANES and EXAFS Study. <i>Journal of Physical Chemistry C</i> , 2017, 121, 14045-14050.	1.5	24
28	The structure of liquid metals probed by XAS. <i>EPJ Web of Conferences</i> , 2017, 151, 01001.	0.1	0
29	LISA: the Italian CRG beamline for x-ray Absorption Spectroscopy at ESRF. <i>Journal of Physics: Conference Series</i> , 2016, 712, 012021.	0.3	21
30	Chemical Short-Range Order in Selenide and Telluride Glasses. <i>Journal of Physical Chemistry B</i> , 2016, 120, 9204-9214.	1.2	29
31	Insights into the cytotoxic activity of the phosphane copper(I) complex [Cu(thp)4][PF6]. <i>Journal of Inorganic Biochemistry</i> , 2016, 165, 80-91.	1.5	38
32	Local Structure and Stability of SEI in Graphite and ZFO Electrodes Probed by As K-Edge Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2016, 120, 4287-4295.	1.5	20
33	In situ X-ray Absorption Fine Structure Spectroscopy of a Palladium Catalyst for the Direct Synthesis of Hydrogen Peroxide: Leaching and Reduction of the Metal Phase in the Presence of Bromide Ions. <i>ChemCatChem</i> , 2015, 7, 3712-3718.	1.8	21
34	EXAFS in situ: The effect of bromide on Pd during the catalytic direct synthesis of hydrogen peroxide. <i>Catalysis Today</i> , 2015, 248, 138-141.	2.2	29
35	Au-Ag nanoalloy molecule-like clusters for enhanced quantum efficiency emission of Er ³⁺ ions in silica. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 28262-28269.	1.3	28
36	Gold-based nucleation in implanted silica studied by x-ray absorption spectroscopy. <i>Ceramics International</i> , 2015, 41, 8660-8664.	2.3	2

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37	The chemical environment of iron in mineral fibres. A combined X-ray absorption and Mössbauer spectroscopic study. Journal of Hazardous Materials, 2015, 298, 282-293.	6.5	44
38	In Situ X-ray Absorption Spectroscopy and X-ray Diffraction Investigation of Nb-H Nanoclusters in MgH ₂ during Hydrogen Desorption. Journal of Physical Chemistry C, 2015, 119, 7765-7770.	1.5	9
39	Insights into the Effect of Iron and Cobalt Doping on the Structure of Nanosized ZnO. Inorganic Chemistry, 2015, 54, 9393-9400.	1.9	38
40	Short range order in Ge-Ga-Se glasses. Journal of Alloys and Compounds, 2015, 651, 578-584.	2.8	16
41	Melting of iron determined by X-ray absorption spectroscopy to 100 GPa. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12042-12045.	3.3	68
42	The amorphous Zn biomineralization at Naracauli stream, Sardinia: electron microscopy and X-ray absorption spectroscopy. Environmental Science and Pollution Research, 2014, 21, 6775-6782.	2.7	29
43	Effect of ultrasmall Au-Ag aggregates formed by ion implantation in Er-implanted silica on the 1.54 μ m Er ³⁺ luminescence. Nuclear Instruments & Methods in Physics Research B, 2014, 326, 11-14.	0.6	3
44	Structural and Electrochemical Characterization of Vanadium-Doped LiFePO ₄ Cathodes for Lithium-Ion Batteries. Journal of the Electrochemical Society, 2013, 160, A940-A949.	1.3	20
45	Pressure-induced transformations in amorphous Si-Ge alloy. Physical Review B, 2012, 85, .	1.1	9
46	Discoloration of the smalt pigment: experimental studies and ab initio calculations. Journal of Analytical Atomic Spectrometry, 2012, 27, 1941.	1.6	21
47	Straightforward Synthesis of Gold Nanoparticles Supported on Commercial Silica-Polyethyleneimine Beads. Journal of Physical Chemistry C, 2012, 116, 25434-25443.	1.5	32
48	Interaction of Cisplatin with Human Superoxide Dismutase. Journal of the American Chemical Society, 2012, 134, 7009-7014.	6.6	65
49	Multiple-scattering x-ray absorption analysis of quartzlike, rutilelike, and amorphous germanium dioxide. Physical Review B, 2011, 84, .	1.1	3
50	Permanent Ge Coordination Change Induced by Pressure in La ₂ O ₃ -B ₂ O ₃ -GeO ₂ Glass. Journal of the American Ceramic Society, 2010, 93, 2726-2730.	1.9	2
51	Combination of optical and X-ray techniques in the study of amorphous semiconductors under high pressure: an upgrade setup for combined XAS and XRD measurements. High Pressure Research, 2010, 30, 28-34.	0.4	10
52	charge-density deformation and magnetostrictive bond strain observed in amorphous GeS_2 . Physical Review B, 2010, 81, 235401.	1.1	14
53	Structural changes in amorphous GeS_2 under high pressure. Physical Review B, 2010, 81, .	1.1	14
54	Portable laser-heating stand for synchrotron applications. Review of Scientific Instruments, 2009, 80, 045103.	0.6	55

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55	Local structure of liquid and undercooled liquid Cu probed by x-ray absorption spectroscopy.. Journal of Physics: Conference Series, 2008, 121, 042009.	0.3	3
56	Energy Dispersive X-Ray Absorption Spectroscopy: Beamline Results and Opportunities. AIP Conference Proceedings, 2007, , .	0.3	0
57	Opportunities for Time Resolved Studies at the ID24 Energy Dispersive XAS Beamline of the ESRF. AIP Conference Proceedings, 2007, , .	0.3	2
58	Effect of Pressure on Magnetoelastic Coupling in $3d$ Metal Alloys Studied with X-Ray Absorption Spectroscopy. Physical Review Letters, 2007, 99, 237204.	2.9	19
59	High-pressure phase of GaP: Structure and chemical ordering. Physical Review B, 2007, 76, .	1.1	16
60	Electronic topological transition in zinc under pressure: An x-ray absorption spectroscopy study. Physical Review B, 2007, 76, .	1.1	11
61	Metastable Bi under Extreme Conditions Investigated by Combined XAS and XRD. AIP Conference Proceedings, 2007, , .	0.3	0
62	Study of local icosahedral ordering in liquid and undercooled liquid copper. Journal of Non-Crystalline Solids, 2007, 353, 3671-3678.	1.5	17
63	Role of defective icosahedra in undercooled copper. Physical Review B, 2007, 75, .	1.1	24
64	An Introduction to Differential EXAFS. AIP Conference Proceedings, 2007, , .	0.3	1
65	Dispersive XAS on a High Brilliance Source: Highlights and Future Opportunities. AIP Conference Proceedings, 2007, , .	0.3	1
66	Local Ordering in Disordered Systems under Extreme Conditions. AIP Conference Proceedings, 2007, , .	0.3	0
67	Probing atomic displacements with thermal differential EXAFS. Journal of Synchrotron Radiation, 2007, 14, 421-425.	1.0	16
68	Polymorphism and metastable phenomena in liquid tin under pressure. Applied Physics Letters, 2006, 89, 221912.	1.5	20
69	Metastable phase diagram of Bi probed by single-energy x-ray absorption detection and angular dispersive x-ray diffraction. Physical Review B, 2006, 74, .	1.1	21
70	Cadmium under High Pressure and High Temperature Conditions. Physica Scripta, 2005, , 1056.	1.2	10
71	Reverse Monte Carlo refinement of molecular and condensed systems by x-ray absorption spectroscopy. Journal of Physics Condensed Matter, 2005, 17, S135-S144.	0.7	37
72	Tridimensional Imaging of Local Structure by XRay Absorption Spectroscopy. Physica Scripta, 2005, , 882.	1.2	0

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73	Liquid gallium in confined droplets under high-temperature and high-pressure conditions. Physical Review B, 2005, 71, .	1.1	29
74	Confined Lead NanoGranules Investigated with Xray Absorption Spectroscopy. Physica Scripta, 2005, , 474.	1.2	1
75	Copper and Silver Alloys under Extreme Conditions. Physica Scripta, 2005, , 960.	1.2	1
76	Probing the local structure of liquid binary mixtures by x-ray absorption spectroscopy. Physical Review B, 2004, 70, .	1.1	14
77	Is There Icosahedral Ordering in Liquid and Undercooled Metals?. Physical Review Letters, 2003, 91, 135505.	2.9	148
78	Multichannel detectorâ€“collimator for powder diffraction measurements at energy scanning x-ray absorption spectroscopy synchrotron radiation beamlines for high-pressure and high-temperature applications. Review of Scientific Instruments, 2003, 74, 2654-2663.	0.6	28
79	Structural disorder in liquid and solid CuI at high temperature probed by x-ray absorption spectroscopy. Physical Review B, 2002, 66, .	1.1	31
80	Investigation of undercooled liquid metals using XAFS, temperature scans and diffraction. Journal of Synchrotron Radiation, 2001, 8, 81-86.	1.0	7