

# 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  
g-index

80  
all docs

80  
docs citations

80  
times ranked

2162  
citing authors

#	ARTICLE	IF	CITATIONS
1	Is There Icosahedral Ordering in Liquid and Undercooled Metals?. <i>Physical Review Letters</i> , 2003, 91, 135505.	2.9	148
2	Melting of iron determined by X-ray absorption spectroscopy to 100 GPa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 12042-12045.	3.3	68
3	Interaction of Cisplatin with Human Superoxide Dismutase. <i>Journal of the American Chemical Society</i> , 2012, 134, 7009-7014.	6.6	65
4	Portable laser-heating stand for synchrotron applications. <i>Review of Scientific Instruments</i> , 2009, 80, 045103.	0.6	55
5	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
6	The chemical environment of iron in mineral fibres. A combined X-ray absorption and Mössbauer spectroscopic study. <i>Journal of Hazardous Materials</i> , 2015, 298, 282-293.	6.5	44
7	Insights into the Effect of Iron and Cobalt Doping on the Structure of Nanosized ZnO. <i>Inorganic Chemistry</i> , 2015, 54, 9393-9400.	1.9	38
8	Insights into the cytotoxic activity of the phosphane copper(I) complex [Cu(thp) <sub>4</sub> ][PF <sub>6</sub> ]. <i>Journal of Inorganic Biochemistry</i> , 2016, 165, 80-91.	1.5	38
9	Reverse Monte Carlo refinement of molecular and condensed systems by x-ray absorption spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S135-S144.	0.7	37
10	Straightforward Synthesis of Gold Nanoparticles Supported on Commercial Silica-Polyethyleneimine Beads. <i>Journal of Physical Chemistry C</i> , 2012, 116, 25434-25443.	1.5	32
11	Structural disorder in liquid and solid CuI at high temperature probed by x-ray absorption spectroscopy. <i>Physical Review B</i> , 2002, 66, .	1.1	31
12	Liquid gallium in confined droplets under high-temperature and high-pressure conditions. <i>Physical Review B</i> , 2005, 71, .	1.1	29
13	The amorphous Zn biomineralization at Naracauli stream, Sardinia: electron microscopy and X-ray absorption spectroscopy. <i>Environmental Science and Pollution Research</i> , 2014, 21, 6775-6782.	2.7	29
14	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
15	Chemical Short-Range Order in Selenide and Telluride Glasses. <i>Journal of Physical Chemistry B</i> , 2016, 120, 9204-9214.	1.2	29
16	Multichannel detector collimator for powder diffraction measurements at energy scanning x-ray absorption spectroscopy synchrotron radiation beamlines for high-pressure and high-temperature applications. <i>Review of Scientific Instruments</i> , 2003, 74, 2654-2663.	0.6	28
17	Au-Ag nanoalloy molecule-like clusters for enhanced quantum efficiency emission of Er <sup>3+</sup> ions in silica. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 28262-28269.	1.3	28
18	Structural and Electrochemical Characterization of Zn <sub>1-x</sub> FexO Effect of Aliovalent Doping on the Li <sup>+</sup> Storage Mechanism. <i>Materials</i> , 2018, 11, 49.	1.3	25

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19	Role of defective icosahedra in undercooled copper. <i>Physical Review B</i> , 2007, 75, .	1.1	24
20	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
21	Structural changes in amorphous $\text{GeS}_{21}\text{Mn}_{23}\text{Mn}_{10}\text{S}_{10}$ high pressure. <i>Physical Review B</i> , 2010, 81, .		
22	Metastable phase diagram of Bi probed by single-energy x-ray absorption detection and angular dispersive x-ray diffraction. <i>Physical Review B</i> , 2006, 74, .	1.1	21
23	Discoloration of the smalt pigment: experimental studies and ab initio calculations. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 1941.	1.6	21
24	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
25	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
26	Polymorphism and metastable phenomena in liquid tin under pressure. <i>Applied Physics Letters</i> , 2006, 89, 221912.	1.5	20
27	Structural and Electrochemical Characterization of Vanadium-Doped LiFePO <sub>4</sub> Cathodes for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2013, 160, A940-A949.	1.3	20
28	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
29	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
30	Effect of Pressure on Magnetoelastic Coupling in $\text{Mn}_3\text{Mg}_2\text{Mg}$ Metal Alloys Studied with X-Ray Absorption Spectroscopy. <i>Physical Review Letters</i> , 2007, 99, 237204.	2.9	19
31	Electrochemical Response and Structural Stability of the $\text{Li}^+$ Ion Battery Cathode with Coated $\text{LiMn}_2\text{O}_4$ Nanoparticles. <i>ACS Applied Energy Materials</i> , 2020, 3, 8356-8365.	2.5	18
32	Study of local icosahedral ordering in liquid and undercooled liquid copper. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 3671-3678.	1.5	17
33	High-pressure phase of GaP: Structure and chemical ordering. <i>Physical Review B</i> , 2007, 76, .	1.1	16
34	Probing atomic displacements with thermal differential EXAFS. <i>Journal of Synchrotron Radiation</i> , 2007, 14, 421-425.	1.0	16
35	Short range order in Ge-Ga-Se glasses. <i>Journal of Alloys and Compounds</i> , 2015, 651, 578-584.	2.8	16
36	Electrochemical and structural investigation of transition metal doped V <sub>2</sub> O <sub>5</sub> sono-aerogel cathodes for lithium metal batteries. <i>Solid State Ionics</i> , 2018, 319, 46-52.	1.3	16

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37	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
38	Probing the local structure of liquid binary mixtures by x-ray absorption spectroscopy. <i>Physical Review B</i> , 2004, 70, . <a href="http://www.w3.org/1998/Math/MathML">http://www.w3.org/1998/Math/MathML</a>	1.1	14
39	$\text{charge-density deformation and magnetostrictive bond strain observed in amorphous}$ xmlns:mml="http://www.w3.org/1998/Math/MathML" $\text{TbFe}$ x-ray absorption spectroscopy. <i>Physical Review B</i> , 2010, 81	1.1	14
40	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
41	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
42	The Potential of EuPRAXIA@SPARC_LAB for Radiation Based Techniques. <i>Condensed Matter</i> , 2019, 4, 30.	0.8	12
43	Electronic topological transition in zinc under pressure: An x-ray absorption spectroscopy study. <i>Physical Review B</i> , 2007, 76, .	1.1	11
44	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
45	Cadmium under High Pressure and High Temperature Conditions. <i>Physica Scripta</i> , 2005, , 1056.	1.2	10
46	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. <i>High Pressure Research</i> , 2010, 30, 28-34.	0.4	10
47	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
48	Pressure-induced transformations in amorphous Si-Ge alloy. <i>Physical Review B</i> , 2012, 85, .	1.1	9
49	In Situ X-ray Absorption Spectroscopy – X-ray Diffraction Investigation of Nb – H Nanoclusters in MgH <sub>2</sub> during Hydrogen Desorption. <i>Journal of Physical Chemistry C</i> , 2015, 119, 7765-7770.	1.5	9
50	Thermodynamic stability and structure in aqueous solution of the [Cu(PTA) <sub>4</sub> ] <sup>+</sup> complex (PTA = 1,3,5-triaza-7-phosphaadamantane). <i>Journal of Inorganic Biochemistry</i> , 2018, 188, 50-61.	1.1	9
51	Two-step growth mechanism of supported Co <sub>3</sub> O <sub>4</sub> -based sea-urchin like hierarchical nanostructures. <i>Applied Surface Science</i> , 2018, 439, 876-882.	3.1	8
52	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
53	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
54	Crystal and electronic structure of Co <sub>3</sub> O <sub>4</sub> spinel under pressure probed by XANES and Raman spectroscopy. <i>Physical Review B</i> , 2021, 103, .	1.1	8

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55	Investigation of undercooled liquid metals using XAFS, temperature scans and diffraction. Journal of Synchrotron Radiation, 2001, 8, 81-86.	1.0	7
56	Broadband optical ultrafast reflectivity of Si, Ge and GaAs. Scientific Reports, 2020, 10, 17363.	1.6	7
57	gnxas: Advances in the Suite of Programs for Multiple-Scattering Analysis of X-ray Absorption Data. Springer Proceedings in Physics, 2018, , 221-256.	0.1	6
58	An investigation of the structure of liquid Zn by X-ray absorption spectroscopy. Nuclear Instruments & Methods in Physics Research B, 2017, 411, 68-71.	0.6	5
59	Initial lithiation of carbon-coated zinc ferrite anodes studied by in-situ X-ray absorption spectroscopy. Radiation Physics and Chemistry, 2020, 175, 108468.	1.4	5
60	Impact of Crystal Density on the Electrochemical Behavior of Lithium-Ion Anode Materials: Exemplary Investigation of (Fe-Doped) GeO <sub>2</sub> . Journal of Physical Chemistry C, 2021, 125, 8947-8958.	1.5	5
61	Development of a high temperature diamond anvil cell for x ray absorption experiments under extreme conditions. Radiation Physics and Chemistry, 2020, 175, 108106.	1.4	4
62	A new internally heated diamond anvil cell system for time-resolved optical and x-ray measurements. Review of Scientific Instruments, 2020, 91, 085114.	0.6	4
63	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
64	Multiple-scattering x-ray absorption analysis of quartzlike, rutilelike, and amorphous germanium dioxide. Physical Review B, 2011, 84, .	1.1	3
65	Effect of ultrasmall Au@Ag aggregates formed by ion implantation in Er-implanted silica on the 1.54 $\mu$ m Er <sup>3+</sup> luminescence. Nuclear Instruments & Methods in Physics Research B, 2014, 326, 11-14.	0.6	3
66	Opportunities for Time Resolved Studies at the ID24 Energy Dispersive XAS Beamline of the ESRF. AIP Conference Proceedings, 2007, , .	0.3	2
67	Permanent Ge Coordination Change Induced by Pressure in La <sub>2</sub> O <sub>3</sub> @B <sub>2</sub> O <sub>3</sub> @GeO <sub>2</sub> Glass. Journal of the American Ceramic Society, 2010, 93, 2726-2730.	1.9	2
68	Gold-based nucleation in implanted silica studied by x-ray absorption spectroscopy. Ceramics International, 2015, 41, 8660-8664.	2.3	2
69	Photon beam line of the water window FEL for the EuPRAXIA@SPARC_LAB project. Journal of Physics: Conference Series, 2020, 1596, 012039.	0.3	2
70	An Introduction to Differential EXAFS. AIP Conference Proceedings, 2007, , .	0.3	1
71	Dispersive XAS on a High Brilliance Source: Highlights and Future Opportunities. AIP Conference Proceedings, 2007, , .	0.3	1
72	Structure of liquid In <sub>20</sub> Sn <sub>80</sub> at high temperature: a XAS study. Radiation Physics and Chemistry, 2020, 175, 108089.	1.4	1

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73	Local Structure of Ca <sub>85:8</sub> In <sub>14:2</sub> Eutectic Alloy and Its Pressure-Dependent Temperature Melting Line. Physica Status Solidi - Rapid Research Letters, 2022, 16, 2100423.	1.2	1
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	Tridimensional Imaging of Local Structure by XRay Absorption Spectroscopy. Physica Scripta, 2005, , 882.	1.2	0
77	Energy Dispersive X-Ray Absorption Spectroscopy: Beamline Results and Opportunities. AIP Conference Proceedings, 2007, , .	0.3	0
78	Metastable Bi under Extreme Conditions Investigated by Combined XAS and XRD. AIP Conference Proceedings, 2007, , .	0.3	0
79	Local Ordering in Disordered Systems under Extreme Conditions. AIP Conference Proceedings, 2007, , .	0.3	0
80	The structure of liquid metals probed by XAS. EPJ Web of Conferences, 2017, 151, 01001.	0.1	0