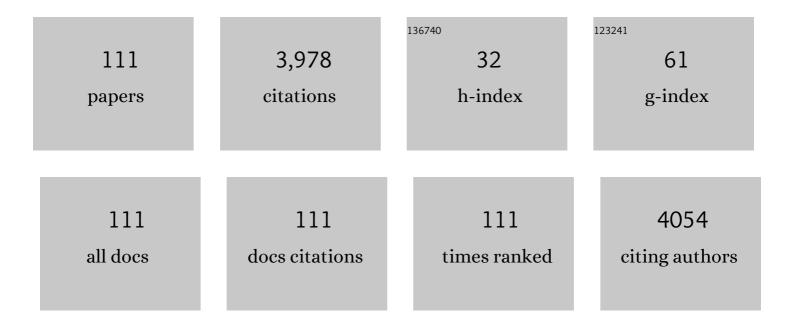
Andrea Di Cicco

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	X-ray-absorption spectroscopy andn-body distribution functions in condensed matter. I. Theory. Physical Review B, 1995, 52, 15122-15134.	1.1	493
2	X-ray-absorption spectroscopy andn-body distribution functions in condensed matter. II. Data analysis and applications. Physical Review B, 1995, 52, 15135-15149.	1.1	393
3	Identification of durable and non-durable FeNx sites in Fe–N–C materials for proton exchange membrane fuel cells. Nature Catalysis, 2021, 4, 10-19.	16.1	368
4	Novel XAFS capabilities at ELETTRA synchrotron light source. Journal of Physics: Conference Series, 2009, 190, 012043.	0.3	177
5	An experimental station for advanced research on condensed matter under extreme conditions at the European Synchrotron Radiation Facility - BM29 beamline. Review of Scientific Instruments, 2000, 71, 2422-2432.	0.6	174
6	ls There Icosahedral Ordering in Liquid and Undercooled Metals?. Physical Review Letters, 2003, 91, 135505.	2.9	148
7	Nearest-neighbor oxygen distances in liquid water and ice observed by x-ray Raman based extended x-ray absorption fine structure. Journal of Chemical Physics, 2007, 127, 174504.	1.2	118
8	Phase Transitions in Confined Gallium Droplets. Physical Review Letters, 1998, 81, 2942-2945.	2.9	116
9	Is the Solid Electrolyte Interphase an Extra-Charge Reservoir in Li-Ion Batteries?. ACS Applied Materials & Interfaces, 2017, 9, 4570-4576.	4.0	74
10	Microstructural defects in nanocrystalline iron probed by x-ray-absorption spectroscopy. Physical Review B, 1994, 50, 12386-12397.	1.1	70
11	Atomic background in x-ray absorption spectra of fifth-period elements: Evidence for double-electron excitation edges. Physical Review A, 1995, 52, 1072-1078.	1.0	66
12	EXAFS studies of FeMo-cofactor and MoFe protein: Direct evidence for the long-range Mo-Fe-Fe interaction and cyanide binding to the Mo in FeMo-cofactor. Journal of the American Chemical Society, 1994, 116, 2418-2423.	6.6	63
13	New Advances in the Study of Local Structure of Molten Binary Salts. Physical Review Letters, 1997, 78, 460-463.	2.9	59
14	Reduced Graphene Oxide/TiO2 Nanocomposite: From Synthesis to Characterization for Efficient Visible Light Photocatalytic Applications. Catalysts, 2018, 8, 598.	1.6	55
15	Unraveling the role of Ti in the stability of positive layered oxide electrodes for rechargeable Na-ion batteries. Journal of Materials Chemistry A, 2019, 7, 14169-14179.	5.2	55
16	Multiple-edge EXAFS refinement: Short-range structure in liquid and crystalline Sn. Physical Review B, 1996, 53, 6174-6185.	1.1	54
17	The structure of lead-silicate glasses: molecular dynamics and EXAFS studies. Journal of Physics Condensed Matter, 2001, 13, 9781-9797.	0.7	53
18	Local ordering of nanostructured Pt probed by multiple-scattering XAFS. Physical Review B, 2007, 76, .	1.1	49

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#	Article	IF	CITATIONS
19	Polyamorphic transition of germanium under pressure. Physical Review B, 2004, 69, .	1.1	48
20	Structure of Undercooled Liquid Pd Probed by X-Ray Absorption Spectroscopy. Physical Review Letters, 1999, 83, 560-563.	2.9	47
21	Short-range structure of solid and liquid AgBr determined by multiple-edge x-ray absorption spectroscopy. Physical Review B, 2000, 62, 12001-12013.	1.1	44
22	Band Gap Implications on Nano-TiO2 Surface Modification with Ascorbic Acid for Visible Light-Active Polypropylene Coated Photocatalyst. Nanomaterials, 2018, 8, 599.	1.9	44
23	Supercooling of liquid-metal droplets for x-ray-absorption-spectroscopy investigations. Physical Review B, 1994, 49, 11749-11758.	1.1	43
24	An XAS experimental approach to study low Pt content electrocatalysts operating in PEM fuel cells. Physical Chemistry Chemical Physics, 2009, 11, 9987.	1.3	41
25	Hydration Properties of the Zn ²⁺ Ion in Water at High Pressure. Inorganic Chemistry, 2013, 52, 1141-1150.	1.9	41
26	Multiple-Edge XAS Studies of Cyanide-Bridged Ironâ^'Copper Molecular Assemblies Relevant to Cyanide-Inhibited Hemeâ^'Copper Oxidases Using Four-Body Multiple-Scattering Analysis. Journal of the American Chemical Society, 1997, 119, 2470-2478.	6.6	39
27	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
28	High-pressure and high-temperature study of phase transitions in solid germanium. Physica Status Solidi (B): Basic Research, 2003, 240, 19-28.	0.7	36
29	SEI Growth and Depth Profiling on ZFO Electrodes by Soft Xâ€Ray Absorption Spectroscopy. Advanced Energy Materials, 2015, 5, 1500642.	10.2	34
30	Evidence for [2p(s)4f] multielectron resonances in x-ray-absorption spectra of sixth-period elements. Physical Review B, 1994, 49, 12564-12571.	1.1	33
31	High-pressure and high-temperature x-ray absorption study of liquid and solid gallium. Physical Review B, 2001, 65, .	1.1	33
32	EIS: the scattering beamline at FERMI. Journal of Synchrotron Radiation, 2015, 22, 553-564.	1.0	33
33	Scaling up "Nano―Li ₄ Ti ₅ O ₁₂ for High-Power Lithium-Ion Anodes Using Large Scale Flame Spray Pyrolysis. Journal of the Electrochemical Society, 2015, 162, A2331-A2338.	1.3	32
34	Structural disorder in liquid and solid CuI at high temperature probed by x-ray absorption spectroscopy. Physical Review B, 2002, 66, .	1.1	31
35	Structure of partially reduced bismuth–silicate glasses: EXAFS and MD study. Journal of Alloys and Compounds, 2005, 401, 135-144.	2.8	30
36	Comment on "X-ray-absorption fine structure in embedded atoms". Physical Review B, 1996, 53, 9466-9467.	1.1	29

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37	Performance of a fuel cell optimized forin situX-ray absorption experiments. Journal of Synchrotron Radiation, 2007, 14, 276-281.	1.0	29
38	Multichannel detector–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
39	Pt–Co cathode electrocatalyst behaviour viewed by in situ XAFS fuel cell measurements. Journal of Power Sources, 2008, 178, 603-609.	4.0	27
40	Phase transitions and undercooling in confined gallium. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1999, 79, 2113-2120.	0.6	25
41	Local Ordering Changes in Pt–Co Nanocatalyst Induced by Fuel Cell Working Conditions. Journal of Physical Chemistry C, 2012, 116, 12791-12802.	1.5	25
42	Short-range order in solid and liquid KBr probed by EXAFS. Journal of Physics Condensed Matter, 1996, 8, 10779-10797.	0.7	24
43	Role of defective icosahedra in undercooled copper. Physical Review B, 2007, 75, .	1.1	24
44	Short-range structure in solid and liquid CuBr probed by multiple-edge x-ray-absorption spectroscopy. Physical Review B, 1997, 56, 11456-11464.	1.1	23
45	Polymorphism and metastable phenomena in liquid tin under pressure. Applied Physics Letters, 2006, 89, 221912.	1.5	20
46	Local structural and chemical ordering of nanosized Pt <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn><mml:mo>±</mml:mo><mml:mi>δ</mml:mi></mml:mrow>probed by multiple-scattering x-ray absorption spectroscopy. Physical Review B, 2011, 83, .</mml:mrow </mml:msub></mml:mrow></mml:math 	1.1 > <td>18 1row></td>	18 1row>
47	Influence of hydrogen reduction on the structure of PbSiO3 glass: an EXAFS study. Journal of Non-Crystalline Solids, 2000, 276, 19-26.	1.5	17
48	Study of local icosahedral ordering in liquid and undercooled liquid copper. Journal of Non-Crystalline Solids, 2007, 353, 3671-3678.	1.5	17
49	Structural study of LiFePO4–LiNiPO4 solid solutions. Journal of Power Sources, 2012, 213, 287-295.	4.0	17
50	Temperature and potential-dependent structural changes in a Pt cathode electrocatalyst viewed by in situ XAFS. Journal of Non-Crystalline Solids, 2008, 354, 4227-4232.	1.5	16
51	Evidence ofKLdouble-electron excitations in x-ray photoemission spectra of solids: The case of MgO andMgF2. Physical Review B, 1994, 49, 2226-2229.	1.1	15
52	Short-range disorder in pseudobinary ionic alloys. Physical Review B, 2002, 65, .	1.1	15
53	Testing interaction models by using x-ray absorption spectroscopy: solid Pb. Journal of Physics Condensed Matter, 2002, 14, 3365-3382.	0.7	15
54	Probing the local structure of liquid binary mixtures by x-ray absorption spectroscopy. Physical Review B, 2004, 70, .	1.1	14

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55	Disordered matter under extreme conditions: X-ray diffraction, electron spectroscopy and electroresistance measurements. Journal of Non-Crystalline Solids, 2006, 352, 4155-4165.	1.5	14
56	Probing matter under extreme conditions at Fermi@Elettra: the TIMEX beamline. Proceedings of SPIE, 2011, , .	0.8	14
57	Probing phase transitions under extreme conditions by ultrafast techniques: Advances at the Fermi@Elettra free-electron-laser facility. Journal of Non-Crystalline Solids, 2011, 357, 2641-2647.	1.5	14
58	X-ray absorption multiple-scattering study of angle distribution in high-Tc superconductors. Physics Letters, Section A: General, Atomic and Solid State Physics, 1993, 176, 375-381.	0.9	13
59	Local g(r) properties in liquids probed by high-temperature EXAFS. Journal of Non-Crystalline Solids, 1996, 205-207, 304-311.	1.5	13
60	Structure of crystalline and amorphous Ge probed by X-ray absorption and diffraction techniques. High Pressure Research, 2004, 24, 93-99.	0.4	13
61	Anomalies in the structure of solid Cd under pressure: an x-ray diffraction study. Journal of Physics Condensed Matter, 2005, 17, 2625-2632.	0.7	13
62	Structure and atomic correlations in molecular systems probed by XAS reverse Monte Carlo refinement. Journal of Chemical Physics, 2018, 148, .	1.2	13
63	Structural evolution mechanisms of amorphous and liquid <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>As</mml:mi><mml: high pressures. Physical Review B, 2016, 93, .</mml: </mml:msub></mml:mrow></mml:math 	mn x2 <td>ոլ։աջ><!--ՠով։</td--></td>	ո լ։աջ > ՠով։</td
64	Emerging oxidized and defective phases in low-dimensional CrCl ₃ . Nanoscale Advances, 2021, 3, 4756-4766.	2.2	12
65	Evolution of the nanostructure of Pt and Pt–Co polymer electrolyte membrane fuel cell electrocatalysts at successive degradation stages probed by X-ray photoemission. Journal of Power Sources, 2014, 271, 548-555.	4.0	11
66	Potassium-Doped Para-Terphenyl: Structure, Electrical Transport Properties and Possible Signatures of a Superconducting Transition. Condensed Matter, 2020, 5, 78.	0.8	11
67	Local structure in binary liquids probed by EXAFS. Journal of Physics Condensed Matter, 1996, 8, 9341-9345.	0.7	10
68	Local structure in molecular complexes probed by multiple-scattering XAS. Journal of Synchrotron Radiation, 2003, 10, 46-50.	1.0	10
69	Interplay of electron heating and saturable absorption in ultrafast extreme ultraviolet transmission of condensed matter. Physical Review B, 2014, 90, .	1.1	10
70	Short-range interaction in liquid rhodium probed by x-ray absorption spectroscopy. Journal of Physics Condensed Matter, 1999, 11, L43-L49.	0.7	8
71	Structure of Water in Zn ²⁺ Aqueous Solutions from Ambient Conditions up to the Gigapascal Pressure Range: A XANES and Molecular Dynamics Study. Inorganic Chemistry, 2017, 56, 14013-14022.	1.9	8
72	Crystal and electronic structure of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"> <mml:msub> <mml:mi mathvariant="normal">Co <mml:mn>3</mml:mn></mml:mi </mml:msub> <mml:msub> <mml:mi mathvariant="normal">O <mml:mn>4</mml:mn></mml:mi </mml:msub> spinel under pressure probed by XANES and Raman spectroscopy. Physical Review B, 2021, 103, .</mml:math 	1.1	8

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73	Short-range structural properties ofNd1.85Ce0.15CuO4andNd2CuO4studied by multiple-scattering EXAFS data analysis. Physical Review B, 1998, 57, 6067-6076.	1.1	7
74	EXAFS study on liquid gallium under high pressure and high temperature. Journal of Synchrotron Radiation, 2001, 8, 776-778.	1.0	7
75	Liquid Rb micrometric droplets confined in paraffin wax: an X-ray absorption spectroscopy study. Journal of Synchrotron Radiation, 2001, 8, 764-766.	1.0	7
76	Investigation of undercooled liquid metals using XAFS, temperature scans and diffraction. Journal of Synchrotron Radiation, 2001, 8, 81-86.	1.0	7
77	A method for estimating the temperature in high energy density free electron laser experiments. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 621, 643-649.	0.7	7
78	Valence State of Pb in Transition Metal Perovskites PbTMO ₃ (TM = Ti, Ni) Determined From Xâ€Ray Absorption Nearâ€Edge Spectroscopy. Physica Status Solidi (B): Basic Research, 2018, 255, 1800014.	0.7	7
79	Metallization of the Ge(111) surface at high-temperature probed by energy-loss and Auger spectroscopies. Solid State Communications, 2005, 134, 577-582.	0.9	6
80	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
81	X-ray Absorption Spectroscopy investigations of disordered matter. Radiation Physics and Chemistry, 2020, 175, 108077.	1.4	6
82	Local structure of liquid and solid silver halides probed by XAFS. Journal of Synchrotron Radiation, 2001, 8, 761-763.	1.0	5
83	Structure of liquid tin under high pressure byab initiomolecular-dynamics simulation. Journal of Physics: Conference Series, 2008, 98, 042010.	0.3	5
84	Modeling saturable absorption for ultra short X-ray pulses. Journal of Electron Spectroscopy and Related Phenomena, 2014, 196, 177-180.	0.8	5
85	New Graphical User Interface for EXAFS analysis with the GNXAS suite of programs. Journal of Physics: Conference Series, 2016, 712, 012002.	0.3	5
86	Modeling Non-Equilibrium Dynamics and Saturable Absorption Induced by Free Electron Laser Radiation. Applied Sciences (Switzerland), 2017, 7, 814.	1.3	5
87	Structural change of carbon supported Pt nanocatalyst subjected to a step-like potential cycling in PEM FC. Journal of Non-Crystalline Solids, 2014, 401, 169-174.	1.5	4
88	Double-edge X-ray absorption study of LiFe \$\$_{1-x}\$\$ 1 - x Ni \$\$_{x}\$ x PO \$\$_{4}\$\$ 4 cathode materials. Journal of Materials Science, 2017, 52, 4886-4893.	1.7	4
89	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
90	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

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91	Advances in modelling X-ray absorption spectroscopy data using reverse Monte Carlo. Physical Chemistry Chemical Physics, 2022, 24, 6988-7000.	1.3	4
92	Evidence for [1s2p]3pshake-up channels in compounds and oxides of third-period elements. Physical Review B, 1996, 53, 15571-15576.	1.1	3
93	Short-range structure of liquid palladium and rhodium at very high temperatures. Journal of Non-Crystalline Solids, 1999, 250-252, 172-176.	1.5	3
94	Development of an experimental set-up for electroresistance measurements of materials under high pressure and temperature. Measurement Science and Technology, 2008, 19, 095701.	1.4	3
95	Multiple-scattering x-ray absorption analysis of quartzlike, rutilelike, and amorphous germanium dioxide. Physical Review B, 2011, 84, .	1.1	3
96	Local symmetry in liquid metals probed by x-ray absorption spectroscopy. Journal of Physics: Conference Series, 2016, 712, 012038.	0.3	3
97	Engineering Porous Silicon Nanowires with Tuneable Electronic Properties. Condensed Matter, 2020, 5, 57.	0.8	3
98	Revisiting the Probing Depths of Soft X-ray Absorption Techniques by Constant Initial State Photoemission Experiments. Springer Proceedings in Physics, 2021, , 85-97.	0.1	3
99	Relativistic Corrections to Phase Shift Calculation in the GNXAS Package. Symmetry, 2021, 13, 1021.	1.1	3
100	Using GNXAS, a multiple-scattering EXAFS analysis, for determination of the Feî—,Nî—,O angle in {FeNO}7 complexes. Physica B: Condensed Matter, 1995, 208-209, 137-139.	1.3	2
101	Nano-structured Pt embedded in acidic salts of heteropolymolybdate matrices: MS EXAFS study. Nuclear Instruments & Methods in Physics Research B, 2015, 364, 65-69.	0.6	2
102	Semiconductors Under Extreme Conditions. Springer Series in Optical Sciences, 2015, , 187-200.	0.5	2
103	Systematic investigation of relativistic effects in EXAFS data analysis. Physical Review B, 2022, 105, .	1.1	2
104	Advanced XAS Analysis for Investigating Fuel Cell Electrocatalysts. AIP Conference Proceedings, 2007,	0.3	1
105	Local atomic order in low Pt-content nanocatalysts investigated <i>in situ</i> by XAS. Journal of Physics: Conference Series, 2009, 190, 012173.	0.3	1
106	Pressure effects on icosahedral short range order in undercooled copper. Solid State Sciences, 2010, 12, 179-182.	1.5	1
107	Structure of liquid In20Sn80 at high temperature: a XAS study. Radiation Physics and Chemistry, 2020, 175, 108089.	1.4	1
108	Local Structure of Ga _{85:8} In _{14:2} Eutectic Alloy and Its Pressure–Temperature Melting Line. Physica Status Solidi - Rapid Research Letters, 2022, 16, 2100423.	1.2	1

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109	Local Ordering in Disordered Systems under Extreme Conditions. AIP Conference Proceedings, 2007, , .	0.3	Ο
110	The structure of liquid metals probed by XAS. EPJ Web of Conferences, 2017, 151, 01001.	0.1	0
111	Structural Properties of Porous Silicon Nanowires: A Combined Characterization by Advanced Spectroscopic Techniques. Springer Proceedings in Physics, 2021, , 191-201.	0.1	Ο