

Marco Scavini

List of Publications by Year in descending order

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84
papers

1,574
citations

257357
24
h-index

345118
36
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84
all docs

84
docs citations

84
times ranked

2455
citing authors

#	ARTICLE	IF	CITATIONS
1	Nematic state of the FeSe superconductor. <i>Physical Review B</i> , 2022, 105, .	1.1	3
2	Local disorder and structure relation induced by magnetic exchange interactions in $A_2(\text{Mo}_{1-x}\text{Y}_x\text{Mn})_2\text{O}_7$ pyrochlores. <i>Journal of Alloys and Compounds</i> , 2021, 865, 158958.	2.8	0
3	Low temperature ferroelectricity in Strontium Titanate domain walls detected by depolarization pyrocurrents. <i>Materials Today Communications</i> , 2021, 28, 102742.	0.9	2
4	Molecular cluster route for the facile synthesis of a stable and active Pt nanoparticle catalyst. <i>New Journal of Chemistry</i> , 2021, 45, 11292-11303.	1.4	4
5	Local Structure and Magnetism of Fe_2O_3 Maghemite Nanocrystals: The Role of Crystal Dimension. <i>Nanomaterials</i> , 2020, 10, 867.	1.9	37
6	Effects of Nanodomains on Local and Long-Range Phase Transitions in Perovskite-Type $\text{Eu}_{0.8}\text{Ca}_{0.2}\text{TiO}_3$. <i>Nanomaterials</i> , 2020, 10, 769.	1.9	5
7	Controlling Selectivity in Alkene Oxidation: Anion Driven Epoxidation or Dihydroxylation Catalysed by [Iron(III)(Pyridine-Containing Ligand)] Complexes. <i>ChemCatChem</i> , 2019, 11, 4907-4915.	1.8	17
8	Local and Average Structure of Yb-Doped Ceria through Synchrotron and Neutron Pair Distribution Function. <i>Inorganics</i> , 2019, 7, 102.	1.2	2
9	Convenient Preparation of Graphene Oxide from Expandable Graphite and Its Characterization by Positron Annihilation Lifetime Spectroscopy. <i>Journal of Carbon Research</i> , 2019, 5, 6.	1.4	6
10	Russoite, $\text{NH}_4\text{ClAs}_2\text{O}_3(\text{H}_2\text{O})_{0.5}$, a new phylloarsenite mineral from Solfatara Di Pozzuoli, Napoli, Italy. <i>Mineralogical Magazine</i> , 2019, 83, 89-94.	0.6	6
11	In-depth study of the mechanism of heavy metal trapping on the surface of hydroxyapatite. <i>Applied Surface Science</i> , 2019, 475, 397-409.	3.1	74
12	Disorder in $\text{La}_{1-x}\text{Ba}_x\text{GaO}_{4-x/2}$ ionic conductor: resolving the pair distribution function through insight from first-principles modeling. <i>Journal of Applied Crystallography</i> , 2019, 52, 712-721.	1.9	3
13	Reverse type I core - CuI /shell - CuO: A versatile heterostructure for photoelectrochemical applications. <i>Electrochimica Acta</i> , 2018, 266, 441-451.	2.6	15
14	Phase Transformations in the $\text{CeO}_2\text{-Sm}_2\text{O}_3$ System: A Multiscale Powder Diffraction Investigation. <i>Inorganic Chemistry</i> , 2018, 57, 879-891.	1.9	34
15	A squeeze on the perovskite structure improves the thermoelectric performance of Europium Calcium Titanates. <i>Materials Today Physics</i> , 2018, 7, 96-105.	2.9	15
16	Electronic Structure and Magnetic Coupling of Pure and Mg-Doped KCuF_3 . <i>Advances in Condensed Matter Physics</i> , 2018, 2018, 1-10.	0.4	1
17	Rare Earth Doped Ceria: The Complex Connection Between Structure and Properties. <i>Frontiers in Chemistry</i> , 2018, 6, 526.	1.8	88
18	Synergistic Effects of Active Sites Nature and Hydrophilicity on the Oxygen Reduction Reaction Activity of Pt-Free Catalysts. <i>Nanomaterials</i> , 2018, 8, 643.	1.9	11

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19	Tailoring the structure and thermoelectric properties of BaTiO ₃ via Eu ²⁺ substitution. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 13469-13480.	1.3	28
20	From nano to microcrystals: effects of different synthetic pathways on the defect architecture in heavily Gd-doped ceria. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 11612-11630.	1.3	39
21	Catalyst Shelf Life: Its Effect on Nitrogen-Doped Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2017, 121, 16415-16422.	1.5	3
22	Electron Spin Resonance Applied to Nanosized-Doped Oxides. <i>Advanced Structured Materials</i> , 2017, , 91-133.	0.3	0
23	Sugar-based catalysts for oxygen reduction reaction. Effects of the functionalization of the nitrogen precursors on the electrocatalytic activity. <i>Electrochimica Acta</i> , 2016, 222, 781-792.	2.6	17
24	Relaxor ferroelectric behavior in $S_{1-x}P_x$ relaxor ferroelectrics. <i>Journal of Applied Physics</i> , 2016, 119, 014101.	1.1	10
25	Structural characterisation of Fe ₂ O ₃ nanoparticles. <i>Journal of Physics: Conference Series</i> , 2016, 712, 012105.	0.3	2
26	Size and spatial correlation of defective domains in yttrium-doped CeO ₂ . <i>Powder Diffraction</i> , 2015, 30, S119-S126.	0.4	8
27	Interplay of structural and magnetic nanoscale phase separation in layered cobaltites. <i>Physical Review B</i> , 2015, 92, .	1.1	5
28	Electron Spin Resonance and Atomic Force Microscopy Study on Gadolinium Doped Ceria. <i>Journal of Spectroscopy</i> , 2015, 2015, 1-6.	0.6	3
29	Spin Dynamics in Hybrid Iron Oxide-Gold Nanostructures. <i>Journal of Physical Chemistry C</i> , 2015, 119, 1224-1233.	1.5	9
30	Easy Accommodation of Different Oxidation States in Iridium Oxide Nanoparticles with Different Hydration Degree as Water Oxidation Electrocatalysts. <i>ACS Catalysis</i> , 2015, 5, 5104-5115.	5.5	105
31	Percolating hierarchical defect structures drive phase transformation in Ce _{1-x} Gd _x O ₂ : a total scattering study. <i>IUCr</i> , 2015, 2, 511-522.	1.0	24
32	Structural characterization of Tb- and Pr-doped ceria. <i>Solid State Ionics</i> , 2014, 268, 150-155.	1.3	24
33	One step flame-made fluorinated Pt/TiO ₂ photocatalysts for hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2014, 160-161, 144-151.	10.8	77
34	Fischer-Tropsch synthesis: EXAFS study of Ru and Pt bimetallic Co based catalysts. <i>Fuel</i> , 2014, 132, 62-70.	3.4	32
35	Micro-TiO ₂ as a starting material for new photocatalytic tiles. <i>Cement and Concrete Composites</i> , 2013, 36, 116-120.	4.6	25
36	In situ pair distribution function study on lanthanum doped ceria. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 8495.	1.3	26

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37	Oxygen transport in nanostructured lanthanum manganites. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 16779.	1.3	7
38	Defect Structure of Y-Doped Ceria on Different Length Scales. <i>Chemistry of Materials</i> , 2013, 25, 4278-4289.	3.2	69
39	Charge ordering transition in GdBaCo ₂ O ₅ : Evidence of reentrant behavior. <i>Physical Review B</i> , 2013, 88, .	1.1	16
40	Disorder in Oxides. <i>Current Inorganic Chemistry</i> , 2013, 3, 35-49.	0.2	3
41	Local disorder in yttrium doped ceria (Ce _{1-x} Y _x O _{2-x/2}) probed by joint X-ray and Neutron Powder Diffraction. <i>Journal of Physics: Conference Series</i> , 2012, 340, 012056.	0.3	17
42	IrO ₂ -Based Disperse-Phase Electrocatalysts: A Complementary Study by Means of the Cavity-Microelectrode and Ex-Situ X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2012, 116, 6497-6504.	1.1	29
43	Rare Earth doped ceria: a combined X-ray and neutron pair distribution function study. <i>Zeitschrift für Kristallographie</i> , 2012, 227, 272-279.	1.1	26
44	Probing Complex Disorder in Ce _{1-x} Gd _x O _{2-x/2} Using the Pair Distribution Function Analysis. <i>Chemistry of Materials</i> , 2012, 24, 1338-1345.	3.2	68
45	Electron Paramagnetic Resonance Analysis of La _{1-x} M _x MnO ₃ (M = Ce, Sr) Perovskite-Like Nanostructured Catalysts. <i>Inorganic Chemistry</i> , 2012, 51, 8433-8440.	1.9	12
46	Role of intrinsic disorder in the structural phase transition of magnetoelectric EuTiO ₃ . <i>Physical Review B</i> , 2012, 85, .	1.1	96
47	Spectroscopic Enlightening of the Local Structure Of VO _X Active Sites in Catalysts for the Odh of Propane. <i>Journal of Physical Chemistry C</i> , 2012, 116, 22386-22398.	1.5	30
48	EuTiO ₃ magnetic structure studied by neutron powder diffraction and resonant x-ray scattering. <i>Physical Review B</i> , 2012, 86, .	1.1	46
49	Interaction in the insulator-to-metal transition of GdBaCo ₂ O ₅ . <i>Physical Review B</i> , 2011, 84, .	1.1	7
50	EXAFS and XANES Evidence of in Situ Cesium Reduction in Cs/Ru/C Catalysts for Ammonia Synthesis. <i>Inorganic Chemistry</i> , 2011, 50, 3757-3765.	1.9	30
51	Crystal structure and structural phase transitions in the GdBaCo ₂ O ₅ . <i>Physical Review B</i> , 2011, 84, .	1.1	17
52	Rhombic-shaped nanodomains in columbite driven by contrasting cation order. <i>American Mineralogist</i> , 2011, 96, 374-382.	0.9	1
53	Differential Pair Distribution Function applied to Ce _{1-x} Gd _x O _{2-x/2} system. , 2011, , 15-20.		2
54	Superconducting diamagnetic fluctuations in Sm-based underdoped cuprates studied via SQUID magnetometry. <i>Physical Review B</i> , 2010, 81, .	1.1	18

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55	Experimental disentangling of orbital and lattice energy scales by inducing cooperative Jahn-Teller melting in $KCu_{1-x}Mg_xF_3$ solid solutions. <i>Physical Review B</i> , 2010, 81, .	1.1	6
56	Effect of Local Disorder on the Transport Properties of Al-Doped $SmBa_2Cu_3O_{6+\delta}$ Superconductors. <i>Journal of Physical Chemistry C</i> , 2010, 114, 19509-19520.	1.5	8
57	Effective Ag doping and resistance to sulfur poisoning of $La_{1-x}Mn_x$ perovskites for the catalytic flameless combustion of methane. <i>Journal of Materials Chemistry</i> , 2010, 20, 10021.	6.7	18
58	Local chemical environment of Nd^{3+} , Eu^{3+} , and Er^{3+} luminescent centers in lead germanate glasses. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	7
59	Experimental estimation of the cooperative Jahn-Teller energy in orbitally ordered $KCu_{0.8}Mg_{0.2}F_3$ perovskite. <i>European Physical Journal B</i> , 2008, 65, 187-190.	0.6	2
60	Melting of Orbital Ordering in $KMgxCu_{1-x}F_3$ Solid Solution. <i>Journal of Physical Chemistry B</i> , 2007, 111, 5976-5983.	1.2	4
61	Modulation of Cu-O chain length in $SmBa_2Cu_3O_{6+\delta}$, by Al doping and clustering. <i>Zeitschrift für Kristallographie, Supplement</i> , 2007, 2007, 495-501.	0.5	1
62	Growth and Structural Characterization of Needlelike Crystals in the $YBaCuO$ System. <i>Crystal Growth and Design</i> , 2006, 6, 1761-1765.	1.4	1
63	Unravelling the role of Cu-O chain length on the superconducting properties of $SmBa_2Cu_3O_{6+\delta}$ via Al doping and clustering. <i>Europhysics Letters</i> , 2006, 76, 443-449.	0.7	8
64	Isothermal and non-isothermal kinetic study of the $PbGeO_3$ solid-solid phase transition. <i>Thermochimica Acta</i> , 2005, 432, 2-9.	1.2	7
65	Structural and Spectroscopic Investigations of Blue, Vanadium-Doped $ZrSiO_4$ Pigments Prepared by a Sol-Gel Route. <i>Journal of Physical Chemistry B</i> , 2005, 109, 22112-22119.	1.2	35
66	Transport properties of Al doped $SmBa_2Cu_3O_{6+\delta}$ superconductor. Part I: oxygen non-stoichiometry and diffusion. <i>Solid State Sciences</i> , 2004, 6, 1187-1194.	1.5	6
67	Local structure around Ce in the $Nd_{1-x}Ce_xCuO_{4-\delta}$ superconductor probed by EXAFS. <i>European Physical Journal B</i> , 2004, 41, 31-42.	0.6	6
68	Percolative small-polarons conduction regime in $Ce_{1-x}Gd_xO_{2+x/2}$, probed by the EPR spectral intensity of Gd^{3+} . <i>Journal of Solid State Chemistry</i> , 2004, 177, 4104-4111.	1.4	10
69	Growth and Structural Characterization of Needlelike Metastable Crystals in the $NdBaCu(O)Al$ System. <i>Crystal Growth and Design</i> , 2004, 4, 1259-1263.	1.4	1
70	Germanium K edge in GeO_2 polymorphs. Correlation between local coordination and electronic structure of germanium. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 1451-1456.	1.3	24
71	CHARACTERISATION OF Al DEFECTS IN $SmBa_2Cu_3O_{6+\delta}$ SUPERCONDUCTOR. <i>International Journal of Modern Physics B</i> , 2003, 17, 936-941.	1.0	3
72	Direct-space analysis of the electronic structure of the $YBa_2Cu_3O_6$ and $YBa_2Cu_3O_7$ crystals. <i>Canadian Journal of Chemistry</i> , 2002, 80, 235-244.	0.6	4

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73	A Combined Nuclear Magnetic Resonance and X-ray Absorption Fine Structure Study on the Local Structures of Ge and Pb in $\text{PbO} \cdot x \text{GeO}_2$ Glasses and Their Relationships with Thermal Properties and Devitrification Products. <i>Journal of Physical Chemistry B</i> , 2002, 106, 9802-9809.	1.2	18
74	Devitrification kinetics of PbGeO_3 . <i>Magyar Árvad Kémizlemények</i> , 2002, 70, 151-164.	1.4	16
75	Structure of Al Defect in High-Temperature Superconductor, Al-Doped Sm-123: An Electron Density Study. <i>Journal of Solid State Chemistry</i> , 2001, 161, 396-401.	1.4	8
76	Stable and Metastable Phases within the GeO_2 -Rich Part of the Binary $\text{PbO} \cdot x \text{GeO}_2$ System. <i>Journal of Materials Synthesis and Processing</i> , 2001, 9, 93-102.	0.3	16
77	Evidence of charge carrier interaction above T_c in the $\text{Nd}_{1.85}\text{Ce}_{0.15}\text{CuO}_4$ superconductor. <i>Physical Review B</i> , 1998, 58, 9385-9389.	1.1	9
78	Nature and amount of carriers in Ce-doped Nd_2CuO_4 II: Low temperature transport and XAS characterisation. <i>Physica C: Superconductivity and Its Applications</i> , 1996, 268, 150-160.	0.6	11
79	Small polarons in undoped Nd_2CuO_4 . <i>Physica C: Superconductivity and Its Applications</i> , 1995, 251, 89-96.	0.6	10
80	The atomic and electronic structure of cerium substitutional defects in $\text{Nd}_{2-x}\text{Ce}_x\text{CuO}_4$. An XAS study. <i>Physica C: Superconductivity and Its Applications</i> , 1995, 253, 147-155.	0.6	26
81	Nature and amount of carriers in Ce doped Nd_2CuO_4 I. High-temperature characterization. <i>Physica C: Superconductivity and Its Applications</i> , 1995, 254, 359-369.	0.6	25
82	Kinetics and Mechanism of Nd_2CuO_4 Synthesis. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1994, 49, 611-616.	0.7	2
83	Electrons and holes in undoped Nd_2CuO_4 . <i>Physica C: Superconductivity and Its Applications</i> , 1994, 230, 412-418.	0.6	17
84	Kinetics and mechanisms of the formation of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. <i>Solid State Ionics</i> , 1990, 43, 77-83.	1.3	11