

Marco Scavini

List of Publications by Year in descending order

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257101

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docs citations

84
times ranked

2455
citing authors

#	ARTICLE	IF	CITATIONS
1	Easy Accommodation of Different Oxidation States in Iridium Oxide Nanoparticles with Different Hydration Degree as Water Oxidation Electrocatalysts. ACS Catalysis, 2015, 5, 5104-5115.	5.5	105
2	Role of intrinsic disorder in the structural phase transition of magnetoelectric EuTiO ₃ . Physical Review B, 2012, 85, .	1.1	96
3	Rare Earth Doped Ceria: The Complex Connection Between Structure and Properties. Frontiers in Chemistry, 2018, 6, 526.	1.8	88
4	One step flame-made fluorinated Pt/TiO ₂ photocatalysts for hydrogen production. Applied Catalysis B: Environmental, 2014, 160-161, 144-151.	10.8	77
5	In-depth study of the mechanism of heavy metal trapping on the surface of hydroxyapatite. Applied Surface Science, 2019, 475, 397-409.	3.1	74
6	Defect Structure of Y-Doped Ceria on Different Length Scales. Chemistry of Materials, 2013, 25, 4278-4289.	3.2	69
7	Probing Complex Disorder in Ce _{1-x} Gd _x O _{2-x/2} Using the Pair Distribution Function Analysis. Chemistry of Materials, 2012, 24, 1338-1345.	3.2	68
8	EuTiO ₃ magnetic structure studied by neutron powder diffraction and resonant x-ray scattering. Physical Review B, 2012, 86, .	1.1	46
9	From nano to microcrystals: effects of different synthetic pathways on the defect architecture in heavily Gd-doped ceria. Physical Chemistry Chemical Physics, 2017, 19, 11612-11630.	1.3	39
10	Local Structure and Magnetism of Fe ₂ O ₃ Maghemite Nanocrystals: The Role of Crystal Dimension. Nanomaterials, 2020, 10, 867.	1.9	37
11	Structural and Spectroscopic Investigations of Blue, Vanadium-Doped ZrSiO ₄ Pigments Prepared by a Sol-Gel Route. Journal of Physical Chemistry B, 2005, 109, 22112-22119.	1.2	35
12	Phase Transformations in the CeO ₂ -Sm ₂ O ₃ System: A Multiscale Powder Diffraction Investigation. Inorganic Chemistry, 2018, 57, 879-891.	1.9	34
13	Fischer-Tropsch synthesis: EXAFS study of Ru and Pt bimetallic Co based catalysts. Fuel, 2014, 132, 62-70.	3.4	32
14	EXAFS-XANES Evidence of in Situ Cesium Reduction in Cs-Ru/C Catalysts for Ammonia Synthesis. Inorganic Chemistry, 2011, 50, 3757-3765.	1.9	30
15	Spectroscopic Enlightening of the Local Structure Of VO _x Active Sites in Catalysts for the Odh of Propane. Journal of Physical Chemistry C, 2012, 116, 22386-22398.	1.5	30
16	IrO ₂ -Based Disperse-Phase Electrocatalysts: A Complementary Study by Means of the Cavity-Microelectrode and Ex-Situ X-ray Absorption Spectroscopy. Journal of Physical Chemistry A, 2012, 116, 6497-6504.	1.1	29
17	Tailoring the structure and thermoelectric properties of BaTiO ₃ via Eu ²⁺ substitution. Physical Chemistry Chemical Physics, 2017, 19, 13469-13480.	1.3	28
18	The atomic and electronic structure of cerium substitutional defects in Nd _{2-x} Ce _x CuO ₄ . An XAS study. Physica C: Superconductivity and Its Applications, 1995, 253, 147-155.	0.6	26

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19	Rare Earth doped ceria: a combined X-ray and neutron pair distribution function study. Zeitschrift für Kristallographie, 2012, 227, 272-279.	1.1	26
20	In situ pair distribution function study on lanthanum doped ceria. Physical Chemistry Chemical Physics, 2013, 15, 8495.	1.3	26
21	Nature and amount of carriers in Ce doped Nd ₂ CuO ₄ I. High-temperature characterization. Physica C: Superconductivity and Its Applications, 1995, 254, 359-369.	0.6	25
22	Micro-TiO ₂ as a starting material for new photocatalytic tiles. Cement and Concrete Composites, 2013, 36, 116-120.	4.6	25
23	Germanium K edge in GeO ₂ polymorphs. Correlation between local coordination and electronic structure of germanium. Physical Chemistry Chemical Physics, 2003, 5, 1451-1456.	1.3	24
24	Structural characterization of Tb- and Pr-doped ceria. Solid State Ionics, 2014, 268, 150-155.	1.3	24
25	Percolating hierarchical defect structures drive phase transformation in Ce _{1-x} Gd _x O ₂ : a total scattering study. IUCr, 2015, 2, 511-522.	1.0	24
26	A Combined Nuclear Magnetic Resonance and X-ray Absorption Fine Structure Study on the Local Structures of Ge and Pb in PbO-GeO ₂ Glasses and Their Relationships with Thermal Properties and Devitrification Products. Journal of Physical Chemistry B, 2002, 106, 9802-9809.	1.2	18
27	Superconducting diamagnetic fluctuations in Sm-based underdoped cuprates studied via SQUID magnetometry. Physical Review B, 2010, 81, .	1.1	18
28	Effective Ag doping and resistance to sulfur poisoning of La-Mn perovskites for the catalytic flameless combustion of methane. Journal of Materials Chemistry, 2010, 20, 10021.	6.7	18
29	Electrons and holes in undoped Nd ₂ CuO ₄ . Physica C: Superconductivity and Its Applications, 1994, 230, 412-418.	0.6	17
30	Crystal structure and structural phase transitions in the GdBaCo ₂ O ₇ . Physical Review B, 2011, 84, .	1.1	17
31	Local disorder in yttrium doped ceria (Ce _{1-x} Y _x O ₂) probed by joint X-ray and Neutron Powder Diffraction. Journal of Physics: Conference Series, 2012, 340, 012056.	0.3	17
32	Sugar-based catalysts for oxygen reduction reaction. Effects of the functionalization of the nitrogen precursors on the electrocatalytic activity. Electrochimica Acta, 2016, 222, 781-792.	2.6	17
33	Controlling Selectivity in Alkene Oxidation: Anion Driven Epoxidation or Dihydroxylation Catalysed by [Iron(III)(Pyridine-Containing Ligand)] Complexes. ChemCatChem, 2019, 11, 4907-4915.	1.8	17
34	Stable and Metastable Phases within the GeO ₂ -Rich Part of the Binary PbO-GeO ₂ System. Journal of Materials Synthesis and Processing, 2001, 9, 93-102.	0.3	16
35	Devitrification kinetics of PbGeO ₃ . Magyar Árvizlemények, 2002, 70, 151-164.	1.4	16
36	Charge ordering transition in GdBaCo ₂ O ₅ : Evidence of reentrant behavior. Physical Review B, 2013, 88, .	1.1	16

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55	Oxygen transport in nanostructured lanthanum manganites. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 16779.	1.3	7
56	Transport properties of Al doped SmBa ₂ Cu ₃ O ₆ + δ superconductor. Part I: oxygen non-stoichiometry and diffusion. <i>Solid State Sciences</i> , 2004, 6, 1187-1194.	1.5	6
57	Local structure around Ce in the Nd $\text{Smathsf}_{\{2-x\}}\text{Ce}\text{Smathsf}_{\{x\}}\text{CuO}$ $\text{Smathsf}_{\{4\text{pm}\delta\}}$ superconductor probed by EXAFS. <i>European Physical Journal B</i> , 2004, 41, 31-42.	0.6	6
58	Experimental disentangling of orbital and lattice energy scales by inducing cooperative Jahn-Teller melting in KCu _{1-x} Mg _x F ₃ solid solutions. <i>Physical Review B</i> , 2010, 81, .	1.1	6
59	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
60	Russoite, NH ₄ ClAs ₂₃ O ₃ (H ₂ O) _{0.5} , a new phylloarsenite mineral from Solfatara Di Pozzuoli, Napoli, Italy. <i>Mineralogical Magazine</i> , 2019, 83, 89-94.	0.6	6
61	Interplay of structural and magnetic nanoscale phase separation in layered cobaltites. <i>Physical Review B</i> , 2015, 92, .	1.1	5
62	Effects of Nanodomains on Local and Long-Range Phase Transitions in Perovskite-Type Eu _{0.8} Ca _{0.2} TiO ₃ + δ . <i>Nanomaterials</i> , 2020, 10, 769.	1.9	5
63	Direct-space analysis of the electronic structure of the YBa ₂ Cu ₃ O ₆ and YBa ₂ Cu ₃ O ₇ crystals. <i>Canadian Journal of Chemistry</i> , 2002, 80, 235-244.	0.6	4
64	Melting of Orbital Ordering in KMg _x Cu _{1-x} F ₃ Solid Solution. <i>Journal of Physical Chemistry B</i> , 2007, 111, 5976-5983.	1.2	4
65	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
66	CHARACTERISATION OF Al DEFECTS IN SmBa ₂ Cu ₃ XAlXO ₆ + δ SUPERCONDUCTOR. <i>International Journal of Modern Physics B</i> , 2003, 17, 936-941.	1.0	3
67	Disorder in Oxides. <i>Current Inorganic Chemistry</i> , 2013, 3, 35-49.	0.2	3
68	Electron Spin Resonance and Atomic Force Microscopy Study on Gadolinium Doped Ceria. <i>Journal of Spectroscopy</i> , 2015, 2015, 1-6.	0.6	3
69	Catalyst Shelf Life: Its Effect on Nitrogen-Doped Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2017, 121, 16415-16422.	1.5	3
70	Disorder in La _{1-x} Ba _{1+x} GaO ₄ 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
71	Nematic state of the FeSe superconductor. <i>Physical Review B</i> , 2022, 105, .	1.1	3
72	Kinetics and Mechanism of Nd ₂ CuO ₄ Synthesis. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1994, 49, 611-616.	0.7	2

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73	Experimental estimation of the cooperative Jahn-Teller energy in orbitally ordered $\text{KCu}_{0.8}\text{Mg}_{0.2}\text{F}_3$ perovskite. <i>European Physical Journal B</i> , 2008, 65, 187-190.	0.6	2
74	Structural characterisation of Fe_2O_3 nanoparticles. <i>Journal of Physics: Conference Series</i> , 2016, 712, 012105.	0.3	2
75	Local and Average Structure of Yb-Doped Ceria through Synchrotron and Neutron Pair Distribution Function. <i>Inorganics</i> , 2019, 7, 102.	1.2	2
76	Low temperature ferroelectricity in Strontium Titanate domain walls detected by depolarization pyrocurrents. <i>Materials Today Communications</i> , 2021, 28, 102742.	0.9	2
77	Differential Pair Distribution Function applied to $\text{Ce}_{1-x}\text{Gd}_x\text{O}_{2-x/2}$ system. , 2011, , 15-20.		2
78	Growth and Structural Characterization of Needlelike Metastable Crystals in the $\text{Nd}^{\sim}\text{Ba}^{\sim}\text{Cu}^{\sim}(\text{Al})^{\sim}\text{O}$ System. <i>Crystal Growth and Design</i> , 2004, 4, 1259-1263.	1.4	1
79	Growth and Structural Characterization of Needlelike Crystals in the $\text{Y}^{\sim}\text{Ba}^{\sim}\text{Cu}^{\sim}\text{O}$ System. <i>Crystal Growth and Design</i> , 2006, 6, 1761-1765.	1.4	1
80	Rhombic-shaped nanodomains in columbite driven by contrasting cation order. <i>American Mineralogist</i> , 2011, 96, 374-382.	0.9	1
81	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
82	Modulation of Cu-O chain length in $\text{SmBa}_2\text{Cu}_3\text{O}_{6+\delta}$, by Al doping and clustering. <i>Zeitschrift für Kristallographie, Supplement</i> , 2007, 2007, 495-501.	0.5	1
83	Local disorder and structure relation induced by magnetic exchange interactions in $\text{A}_2(\text{Mo}_{1-y}\text{Mn}_y)_2\text{O}_7$ pyrochlores. <i>Journal of Alloys and Compounds</i> , 2021, 865, 158958.	2.8	0
84	Electron Spin Resonance Applied to Nanosized-Doped Oxides. <i>Advanced Structured Materials</i> , 2017, , 91-133.	0.3	0