

Stefano Checchia

List of Publications by Year in descending order

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33
papers

753
citations

623734

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h-index

526287

27
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35
all docs

35
docs citations

35
times ranked

1348
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial dynamics of lithiation and lithium plating during high-rate operation of graphite electrodes. Energy and Environmental Science, 2020, 13, 2570-2584.	30.8	124
2	Rare Earth Doped Ceria: The Complex Connection Between Structure and Properties. Frontiers in Chemistry, 2018, 6, 526.	3.6	88
3	ID15A at the ESRF " a beamline for high speed <i>operando</i> X-ray diffraction, diffraction tomography and total scattering. Journal of Synchrotron Radiation, 2020, 27, 515-528.	2.4	85
4	Revealing the sequence of switching mechanisms in polycrystalline ferroelectric/ferroelastic materials. Acta Materialia, 2018, 157, 355-363.	7.9	56
5	Fluorous Metal-Organic Frameworks and Nonporous Coordination Polymers as Low- ϵ Dielectrics. Advanced Functional Materials, 2019, 29, 1904707.	14.9	47
6	In Situ Flow MAS NMR Spectroscopy and Synchrotron PDF Analyses of the Local Response of the Brønsted Acidic Site in SAPO-34 during Hydration at Elevated Temperatures. ChemPhysChem, 2018, 19, 519-528.	2.1	40
7	Defect-Driven Structural Distortions at the Surface of Relaxor Ferroelectrics. Advanced Functional Materials, 2019, 29, 1900344.	14.9	35
8	The Effect of Moisture on Cellulose Nanocrystals Intended as a High Gas Barrier Coating on Flexible Packaging Materials. Polymers, 2017, 9, 415.	4.5	31
9	Tailoring the structure and thermoelectric properties of BaTiO ₃ via Eu ²⁺ substitution. Physical Chemistry Chemical Physics, 2017, 19, 13469-13480.	2.8	28
10	Paired Copper Monomers in Zeolite Omega: The Active Site for Methane-to-Methanol Conversion. Angewandte Chemie - International Edition, 2021, 60, 5854-5858.	13.8	27
11	On isothermality in some commonly used plug flow reactors for X-ray based investigations of catalysts. Catalysis Science and Technology, 2019, 9, 3081-3089.	4.1	20
12	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.	5.2	17
13	Homogeneous synthesis and characterization of sulfonated polyarylethersulfones having low degree of sulfonation and highly hydrophilic behavior. Macromolecular Research, 2016, 24, 800-810.	2.4	15
14	Reverse type I core - CuI /shell - CuO: A versatile heterostructure for photoelectrochemical applications. Electrochimica Acta, 2018, 266, 441-451.	5.2	15
15	A squeeze on the perovskite structure improves the thermoelectric performance of Europium Calcium Titanates. Materials Today Physics, 2018, 7, 96-105.	6.0	15
16	Revealing Hot and Long-Lived Metastable Spin States in the Photoinduced Switching of Solvated Metallogrid Complexes with Femtosecond Optical and X-ray Spectroscopies. Journal of Physical Chemistry Letters, 2020, 11, 2133-2141.	4.6	11
17	$S_r P_x Ti_{1-x}$	3.2	10
18	Exploring the light-induced dynamics in solvated metallogrid complexes with femtosecond pulses across the electromagnetic spectrum. Journal of Chemical Physics, 2020, 152, 214301.	3.0	10

#	ARTICLE	IF	CITATIONS
19	Electrodes modified with sulphonated poly(aryl ether sulphone): effect of casting conditions on their enhanced electroanalytical performance.. <i>Electrochimica Acta</i> , 2016, 194, 405-412.	5.2	9
20	Direct observation of domain wall motion and lattice strain dynamics in ferroelectrics under high-power resonance. <i>Physical Review B</i> , 2021, 103, .	3.2	9
21	Size and spatial correlation of defective domains in yttrium-doped CeO ₂ . <i>Powder Diffraction</i> , 2015, 30, S119-S126.	0.2	8
22	A Combined XRD, Solvatochromic, and Cyclic Voltammetric Study of Poly (3,4-Ethylenedioxythiophene) Doped with Sulfonated Polyarylethersulfones: Towards New Conducting Polymers. <i>Polymers</i> , 2018, 10, 770.	4.5	8
23	Paired Copper Monomers in Zeolite Omega: The Active Site for Methane→Methanol Conversion. <i>Angewandte Chemie</i> , 2021, 133, 5918-5922.	2.0	8
24	Reduction of PdO/Al ₂ O ₃ in Liquid Cyclohexane Followed <i>In Situ</i> by ATR-IR, High-Energy XRD, and XAS. <i>Journal of Physical Chemistry C</i> , 2021, 125, 16473-16482.	3.1	7
25	Pd-LaFeO ₃ Catalysts in Aqueous Ethanol: Pd Reduction, Leaching, and Structural Transformations in the Presence of a Base. <i>ACS Catalysis</i> , 2020, 10, 3933-3944.	11.2	6
26	Combining control of branching and sulfonation in one-pot synthesis of random sulfonated polyarylethersulfones: effects on thermal stability and water retention. <i>Polymer Bulletin</i> , 2017, 74, 3939-3954.	3.3	5
27	Effects of Nanodomains on Local and Long-Range Phase Transitions in Perovskite-Type Eu _{0.8} Ca _{0.2} TiO ₃ . <i>Nanomaterials</i> , 2020, 10, 769.	4.1	5
28	Functional surface layers in relaxor ferroelectrics. <i>Journal of Materials Chemistry C</i> , 2020, 8, 7663-7671.	5.5	5
29	Catalyst Shelf Life: Its Effect on Nitrogen-Doped Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2017, 121, 16415-16422.	3.1	3
30	<i>In situ</i> X-ray diffraction investigation of electric-field-induced switching in a hybrid improper ferroelectric. <i>Journal of Applied Crystallography</i> , 2021, 54, 533-540.	4.5	3
31	Local and Average Structure of Yb-Doped Ceria through Synchrotron and Neutron Pair Distribution Function. <i>Inorganics</i> , 2019, 7, 102.	2.7	2
32	Unravelling the crystal structure of Nd _{5.8} WO ₁₂ and Nd _{5.7} W _{0.75} Mo _{0.25} O ₁₂ mixed ionic electronic conductors. <i>Journal of Applied Crystallography</i> , 2020, 53, 1471-1483.	4.5	1
33	Revealing phase boundaries by weighted parametric structural refinement. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 1638-1643.	2.4	0