Simone Mascotto

List of Publications by Year
in descending order

36	856	430874 18	477307 29
papers	citations	h-index	g-index

36	36	36	1231
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ordered Mesoporous Î±â€Fe₂O₃ (Hematite) Thinâ€Film Electrodes for Application in High Rate Rechargeable Lithium Batteries. Small, 2011, 7, 407-414.	10.0	127
2	Diffusion in Hierarchical Mesoporous Materials: Applicability and Generalization of the Fast-Exchange Diffusion Model. Langmuir, 2012, 28, 3621-3632.	3.5	60
3	Analysis of Microporosity in Ordered Mesoporous Hierarchically Structured Silica by Combining Physisorption With in Situ Small-Angle Scattering (SAXS and SANS). Langmuir, 2009, 25, 12670-12681.	3.5	51
4	Electrochemical Generation of Thin Silica Films with Hierarchical Porosity. Chemistry of Materials, 2010, 22, 3426-3432.	6.7	48
5	Template-free mesoporous La0.3Sr0.7Ti1-xFexO3Â±Î´ for CH4 and CO oxidation catalysis. Applied Catalysis B: Environmental, 2019, 245, 536-545.	20.2	47
6	Poly(ionic liquid)-derived nanoporous carbon analyzed by combination of gas physisorption and small-angle neutron scattering. Carbon, 2015, 82, 425-435.	10.3	37
7	Distribution of Sulfur in Carbon/Sulfur Nanocomposites Analyzed by Small-Angle X-ray Scattering. Langmuir, 2016, 32, 2780-2786.	3.5	36
8	The effect of hydrothermal treatment on column performance for monolithic silica capillary columns. Journal of Chromatography A, 2011, 1218, 3624-3635.	3.7	32
9	Severe Loss of Confined Sulfur in Nanoporous Carbon for Liâ€“S Batteries under Wetting Conditions. ACS Energy Letters, 2018, 3, 387-392.	17.4	32
10	Adsorption in Periodically Ordered Mesoporous Organosilica Materials Studied by in Situ Small-Angle X-ray Scattering and Small-Angle Neutron Scattering. Langmuir, 2010, 26, 6583-6592.	3.5	31
11	Low-temperature wet chemistry synthetic approaches towards ferrites. Inorganic Chemistry Frontiers, 2020, 7, 3282-3314.	6.0	31
12	Coprecipitation of Oxalates: An Easy and Reproducible Wetâ€Chemistry Synthesis Route for Transitionâ€Metal Ferrites. European Journal of Inorganic Chemistry, 2014, 2014, 875-887.	2.0	30
13	Surface Reconstruction under the Exposure of Electric Fields Enhances the Reactivity of Donor-Doped SrTiO₃. Journal of Physical Chemistry C, 2019, 123, 16883-16892.	3.1	26
14	Very fast crystallisation of MFe2O4 spinel ferrites (M = Co, Mn, Ni, Zn) under low temperature hydrothermal conditions: a time-resolved structural investigation. Green Chemistry, 2018, 20, 2257-2268.	9.0	25
15	Bimetallic Exsolved Heterostructures of Controlled Composition with Tunable Catalytic Properties. ACS Nano, 2022, 16, 8904-8916.	14.6	24
16	Enhancement of the SrTiO 3 Surface Reactivity by Exposure to Electric Fields. ChemNanoMat, 2019, 5, 948-956.	2.8	22
17	Combined use of XAFS, XRD and TEM to unravel the microstructural evolution of nanostructured ZrO2â€“SiO2 binary oxides: from nanometres down to the molecular domain. CrystEngComm, 2010, 12, 1639.	2.6	19
18	Cooperative assembly synthesis of mesoporous SrTiO₃with enhanced photocatalytic properties. RSC Advances, 2016, 6, 90401-90409.	3.6	19

#	Article	IF	Citations
19	Understanding Oxygen Release from Nanoporous Perovskite Oxides and Its Effect on the Catalytic Oxidation of CH₄ and CO. ACS Applied Materials & Interfaces, 2021, 13, 25483-25492.	8.0	19
20	A Green Approach for Preparing High-Loaded Sepiolite/Polymer Biocomposites. Nanomaterials, 2019, 9, 46.	4.1	18
21	Effect of microwave assisted and conventional thermal heating on the evolution of nanostructured inorganicâ€“organic hybrid materials to binary ZrO2â€“SiO2 oxides. Journal of Materials Chemistry, 2007, 17, 4387.	6.7	15
22	Tailoring the Dielectric and Mechanical Properties of Polybutadiene Nanocomposites by Using Designed Ladder-like Polysilsesquioxanes. ACS Applied Nano Materials, 2018, 1, 3817-3828.	5.0	15
23	CharakterisierungmesoporÃ¶ser Materialien mittels Kleinwinkelstreuung (SAXS/SANS). Chemie-Ingenieur-Technik, 2010, 82, 823-828.	0.8	10
24	Ice Nucleation in Periodic Arrays of Spherical Nanocages. Journal of Physical Chemistry C, 2017, 121, 23788-23792.	3.1	10
25	Pt Nanoparticles Supported on a Mesoporous (La,Sr)(Ti,Fe)O_{3â^Î´} Solid Solution for the Catalytic Oxidation of CO and CH₄. ACS Applied Nano Materials, 2020, 3, 11352-11362.	5.0	10
26	TiO2 containing hybrid nanocomposites with activeâ€“passive oxygen scavenging capability. Chemical Engineering Journal, 2021, 417, 129135.	12.7	9
27	Functional Nanostructured Perovskite Oxides from Radical Polymer Precursors. Inorganic Chemistry, 2019, 58, 15942-15952.	4.0	7
28	Silica hairy nanoparticles: a promising material for self-assembling processes. Soft Matter, 2021, 17, 9434-9446.	2.7	7
29	Silicaâ€“zirconia mixed oxide samples by an hybrid materials based innovative preparation procedure: Influence of preparation procedure and composition on active sites. Journal of Non-Crystalline Solids, 2009, 355, 481-487.	3.1	6
30	Pore geometry effect on the synthesis of silica supported perovskite oxides. Journal of Colloid and Interface Science, 2017, 504, 346-355.	9.4	6
31	Single chamber Solid Oxide Fuel Cells selective electrodes: A real chance with brownmillerite-based nanocomposites. International Journal of Hydrogen Energy, 2021, 46, 14735-14747.	7.1	6
32	Alkyl chain grafting on silicaâ€“zirconia mixed oxides: preparation and characterization. Journal of Materials Chemistry, 2010, 20, 2345.	6.7	5
33	Detailed and Direct Observation of Sulfur Crystal Evolution During Operando Analysis of a Liâ€“S Cell with Synchrotron Imaging. Journal of Physical Chemistry Letters, 2020, 11, 5674-5679.	4.6	5
34	Direct Observation of the Xenon Physisorption Process in Mesopores by Combining In Situ Anomalous Small-Angle X-ray Scattering and X-ray Absorption Spectroscopy. Journal of Physical Chemistry Letters, 2021, 12, 4018-4023.	4.6	4
35	Nuclear Magnetic Resonance Cryoporometry Study of Solidâ€“Liquid Equilibria in Interconnected Spherical Nanocages. Journal of Physical Chemistry C, 2021, 125, 26916-26926.	3.1	4
36	Hierarchically Ordered Monolithic Silica with Bimodal Porosity Obtained by Hydrolysis and Condensation of 1,4â€Bis(trimethoxysilyl)arenes. Chemie-Ingenieur-Technik, 2013, 85, 1700-1706.	0.8	3