

Serena Esposito

List of Publications by Year in descending order

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87
papers

2,231
citations

218592

26
h-index

265120

42
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88
all docs

88
docs citations

88
times ranked

2305
citing authors

#	ARTICLE	IF	CITATIONS
1	“Traditional” Sol-Gel Chemistry as a Powerful Tool for the Preparation of Supported Metal and Metal Oxide Catalysts. <i>Materials</i> , 2019, 12, 668.	1.3	213
2	Solid state ²⁷ Al NMR and FTIR study of lanthanum aluminosilicate glasses. <i>Journal of Non-Crystalline Solids</i> , 1999, 258, 11-19.	1.5	160
3	Ftir and dta study of lanthanum aluminosilicate glasses. <i>Materials Chemistry and Physics</i> , 1997, 51, 163-168.	2.0	103
4	Cobalt-silicon mixed oxide nanocomposites by modified sol-gel method. <i>Journal of Solid State Chemistry</i> , 2007, 180, 3341-3350.	1.4	83
5	Sol-Gel Synthesis of Humidity-Sensitive P2O5-SiO2 Amorphous Films. <i>Journal of Sol-Gel Science and Technology</i> , 2000, 17, 247-254.	1.1	71
6	FTIR study of the thermal transformation of barium-exchanged zeolite A to celsian. <i>Journal of Materials Chemistry</i> , 2002, 12, 3039-3045.	6.7	62
7	Magnetic Properties of Nanocomposites. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 212.	1.3	62
8	Structure and crystallization behavior of glasses in the BaO-B2O3-Al2O3 system. <i>Journal of Non-Crystalline Solids</i> , 1999, 258, 1-10.	1.5	59
9	Highly dispersed sol-gel synthesized Cu-ZrO2 materials as catalysts for oxidative steam reforming of methanol. <i>Applied Catalysis A: General</i> , 2010, 372, 48-57.	2.2	59
10	Solid state ²⁹ Si and ³¹ P NMR study of gel derived phosphosilicate glasses. <i>Journal of Materials Chemistry</i> , 2001, 11, 936-943.	6.7	58
11	Photo-activated degradation of tartrazine by H2O2 as catalyzed by both bare and Fe-doped methyl-imogolite nanotubes. <i>Catalysis Today</i> , 2018, 304, 199-207.	2.2	38
12	A critical role of pH in the combustion synthesis of nano-sized SrAl2O4:Eu ²⁺ , Dy ³⁺ phosphor. <i>Ceramics International</i> , 2014, 40, 4697-4706.	2.3	36
13	CO ₂ Adsorption on Aluminosilicate Single-Walled Nanotubes of Imogolite Type. <i>Journal of Physical Chemistry C</i> , 2012, 116, 20417-20425.	1.5	33
14	A comparative study of the thermal transformations of Ba-exchanged zeolites A, X and LSX. <i>Journal of the European Ceramic Society</i> , 2004, 24, 2689-2697.	2.8	32
15	²⁹ Si and ²⁷ Al NMR study of the thermal transformation of barium exchanged zeolite-A to celsian. <i>Journal of Materials Chemistry</i> , 2003, 13, 1681.	6.7	31
16	Sorption Capacity of Mesoporous Metal Oxides for the Removal of MCPA from Polluted Waters. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 5011-5016.	2.4	31
17	Decontamination of waters polluted with simazine by sorption on mesoporous metal oxides. <i>Journal of Hazardous Materials</i> , 2011, 196, 242-247.	6.5	31
18	Al/Fe isomorphous substitution versus Fe2O3 clusters formation in Fe-doped aluminosilicate nanotubes (imogolite). <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	0.8	31

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19	Relationships between the water content of zeolites and their cation population. <i>Microporous and Mesoporous Materials</i> , 2015, 202, 36-43.	2.2	31
20	Self-Activating Catalyst for Glucose Hydrogenation in the Aqueous Phase under Mild Conditions. <i>ACS Catalysis</i> , 2019, 9, 3426-3436.	5.5	31
21	Solar driven photocatalysis using iron and chromium doped TiO ₂ coupled to moving bed biofilm process for olive mill wastewater treatment. <i>Chemical Engineering Journal</i> , 2022, 450, 138107.	6.6	30
22	Cyclic process of simazine removal from waters by adsorption on zeolite H-Y and its regeneration by thermal treatment. <i>Journal of Hazardous Materials</i> , 2012, 229-230, 354-360.	6.5	29
23	Films by slurry coating of nanometric YSZ (8mol% Y ₂ O ₃) powders synthesized by low-temperature hydrothermal treatment. <i>Journal of the European Ceramic Society</i> , 2005, 25, 2017-2021.	2.8	28
24	TPR/TPO characterization of cobalt-silicon mixed oxide nanocomposites prepared by sol-gel. <i>Thermochimica Acta</i> , 2008, 471, 51-54.	1.2	28
25	New insight into the preparation of copper/zirconia catalysts by sol-gel method. <i>Applied Catalysis A: General</i> , 2011, 403, 128-135.	2.2	28
26	Solid state ¹ H NMR study, humidity sensitivity and protonic conduction of gel derived phosphosilicate glasses. <i>Journal of Materials Chemistry</i> , 2002, 12, 3746-3753.	6.7	27
27	Simazine removal from waters by adsorption on porous silicas tailored by sol-gel technique. <i>Microporous and Mesoporous Materials</i> , 2013, 180, 178-186.	2.2	26
28	Imogolite: An Aluminosilicate Nanotube Endowed with Low Cytotoxicity and Genotoxicity. <i>Chemical Research in Toxicology</i> , 2014, 27, 1142-1154.	1.7	26
29	Ultra-fast high-temperature sintering (UHS) of Ce _{0.2} Zr _{0.2} Y _{0.2} Gd _{0.2} La _{0.2} O ₂ fluorite-structured entropy-stabilized oxide (F-ESO). <i>Scripta Materialia</i> , 2022, 214, 114655.	2.6	26
30	Role of Li in the low temperature synthesis of monoclinic celsian from (Ba, Li)-exchanged zeolite-A precursor. <i>Solid State Sciences</i> , 2005, 7, 1406-1414.	1.5	25
31	Isomorphic substitution of aluminium by iron into single-walled alumino-silicate nanotubes: A physico-chemical insight into the structural and adsorption properties of Fe-doped imogolite. <i>Microporous and Mesoporous Materials</i> , 2016, 224, 229-238.	2.2	25
32	Near UV irradiation of CuO-impregnated TiO ₂ Providing Active Species for H ₂ Production Through Methanol Photoreforming. <i>ChemCatChem</i> , 2019, 11, 4314-4326.	1.8	25
33	Solid state NMR study of phosphosilicate gels. <i>Journal of Non-Crystalline Solids</i> , 2004, 345-346, 601-604.	1.5	24
34	Reactivity of bare and Fe-doped alumino-silicate nanotubes (imogolite) with H ₂ O ₂ and the azo-dye Acid Orange 7. <i>Catalysis Today</i> , 2016, 277, 89-96.	2.2	24
35	Preparation and Characterization of Magnetic and Porous Metal-Ceramic Nanocomposites from a Zeolite Precursor and Their Application for DNA Separation. <i>Journal of Biomedical Nanotechnology</i> , 2017, 13, 337-348.	0.5	24
36	Magnetic metal-ceramic nanocomposites obtained from cation-exchanged zeolite by heat treatment in reducing atmosphere. <i>Microporous and Mesoporous Materials</i> , 2018, 268, 131-143.	2.2	24

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37	Study of the thermal transformations of Co- and Fe-exchanged zeolites A and X by XRD under reducing atmosphere. <i>Materials Research Bulletin</i> , 2010, 45, 744-750.	2.7	23
38	Novel process to prepare magnetic metal-ceramic nanocomposites from zeolite precursor and their use as adsorbent of agrochemicals from water. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 527-538.	3.3	22
39	Application of Reverse Micelle Sol-Gel Synthesis for Bulk Doping and Heteroatoms Surface Enrichment in Mo-Doped TiO_2 Nanoparticles. <i>Materials</i> , 2019, 12, 937.	1.3	21
40	Co-doped LaAlO_3 perovskite oxide for NO_x -assisted soot oxidation. <i>Applied Catalysis A: General</i> , 2020, 589, 117304.	2.2	21
41	Metal-ceramic composite materials from zeolite precursor. <i>Solid State Sciences</i> , 2012, 14, 394-400.	1.5	19
42	A Sol-Gel Ruthenium-Niobium-Silicon Mixed-Oxide Bifunctional Catalyst for the Hydrogenation of Levulinic Acid in the Aqueous Phase. <i>ChemCatChem</i> , 2017, 9, 1476-1486.	1.8	19
43	Synthesis of cobalt doped silica thin film for low temperature optical gas sensor. <i>Journal of Sol-Gel Science and Technology</i> , 2011, 60, 388-394.	1.1	18
44	Visible Light-Driven Photocatalytic Activity and Kinetics of Fe-Doped TiO_2 Prepared by a Three-Block Copolymer Templating Approach. <i>Materials</i> , 2021, 14, 3105.	1.3	17
45	Solid state NMR and FT Raman spectroscopy of the devitrification of lithium metasilicate glass. <i>Journal of Non-Crystalline Solids</i> , 1998, 224, 50-56.	1.5	16
46	Modes of Interaction of Simazine with the Surface of Model Amorphous Silicas in Water. <i>Journal of Physical Chemistry C</i> , 2013, 117, 11203-11210.	1.5	16
47	Effective Inclusion of Sizable Amounts of Mo within TiO_2 Nanoparticles Can Be Obtained by Reverse Micelle Sol-Gel Synthesis. <i>ACS Omega</i> , 2021, 6, 5379-5388.	1.6	16
48	Solid state ^{11}B NMR study of glasses near the barium metaborate stoichiometry. <i>Journal of Non-Crystalline Solids</i> , 1999, 249, 99-105.	1.5	15
49	New Insights into the Role of the Synthesis Procedure on the Performance of Co-Based Catalysts for Ethanol Steam Reforming. <i>Topics in Catalysis</i> , 2018, 61, 1734-1745.	1.3	15
50	Substitution clustering in a non-stoichiometric celsian synthesized by the thermal transformation of barium exchanged zeolite X. <i>Journal of Solid State Chemistry</i> , 2006, 179, 1957-1964.	1.4	14
51	Hybrid organic-inorganic nanotubes effectively adsorb some organic pollutants in aqueous phase. <i>Applied Clay Science</i> , 2020, 186, 105449.	2.6	14
52	Removal of Agrochemicals from Waters by Adsorption: A Critical Comparison among Humic-Like Substances, Zeolites, Porous Oxides, and Magnetic Nanocomposites. <i>Processes</i> , 2020, 8, 141.	1.3	14
53	A simple model for a complex system: Kinetics of water oxidation with the $[\text{Ru}(\text{bpy})_3]^{2+}/\text{S}_2\text{O}_8^{2-}$ photosystem as catalyzed by Mn_2O_3 under different illumination conditions. <i>Chemical Engineering Journal</i> , 2017, 311, 143-152.	6.6	13
54	Beneficial effect of Fe addition on the catalytic activity of electrodeposited MnO_x films in the water oxidation reaction. <i>Electrochimica Acta</i> , 2018, 284, 294-302.	2.6	13

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55	The role of residual Na ⁺ and Li ⁺ on the thermal transformation of Ba-exchanged Zeolite A. <i>Solid State Sciences</i> , 2011, 13, 1143-1151.	1.5	12
56	The multifarious aspects of the thermal conversion of Ba-exchanged zeolite A to monoclinic celtsian. <i>Microporous and Mesoporous Materials</i> , 2018, 256, 235-250.	2.2	12
57	Magnetic clustering of Ni ²⁺ ions in metal-ceramic nanocomposites obtained from Ni-exchanged zeolite precursors. <i>Ceramics International</i> , 2018, 44, 17240-17250.	2.3	12
58	Reverse Micelle Strategy for the Synthesis of MnO ₂ @TiO ₂ Active Catalysts for NH ₃ -Selective Catalytic Reduction of NO _x at Both Low Temperature and Low Mn Content. <i>ACS Omega</i> , 2021, 6, 24562-24574.	1.6	12
59	Removal of sulfanilamide by tailor-made magnetic metal-ceramic nanocomposite adsorbents. <i>Journal of Environmental Management</i> , 2022, 310, 114701.	3.8	12
60	IR spectroscopic study of the acidic properties of aluminosilicate single-walled nanotubes of the imogolite type. <i>Catalysis Today</i> , 2013, 218-219, 3-9.	2.2	11
61	Role of pH in the Aqueous Phase Reactivity of Zerovalent Iron Nanoparticles with Acid Orange 7, a Model Molecule of Azo Dyes. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-13.	1.5	11
62	Active and stable ceria-zirconia supported molybdenum oxide catalysts for cyclooctene epoxidation: Effect of the preparation procedure. <i>Catalysis Today</i> , 2020, 345, 201-212.	2.2	11
63	Effects of the Brookite Phase on the Properties of Different Nanostructured TiO ₂ Phases Photocatalytically Active Towards the Degradation of N-Phenylurea. <i>ChemistryOpen</i> , 2020, 9, 903-912.	0.9	11
64	The role of metallic and acid sites of Ru-Nb-Si catalysts in the transformation of levulinic acid to β -valerolactone. <i>Applied Catalysis B: Environmental</i> , 2022, 310, 121340.	10.8	11
65	The role of outer surface/inner bulk Brønsted acidic sites in the adsorption of a large basic molecule (simazine) on H-Y zeolite. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 28950-28957.	1.3	10
66	Magnetic behavior of Ni nanoparticles and Ni ²⁺ ions in weakly loaded zeolitic structures. <i>Journal of Alloys and Compounds</i> , 2020, 817, 152776.	2.8	10
67	Separation of Biological Entities from Human Blood by Using Magnetic Nanocomposites Obtained from Zeolite Precursors. <i>Molecules</i> , 2020, 25, 1803.	1.7	10
68	Silica Meets Tannic Acid: Designing Green Nanoplatforms for Environment Preservation. <i>Molecules</i> , 2022, 27, 1944.	1.7	10
69	Chemical heterogeneity in phosphosilicate gels by NMR magnetisation exchange. <i>Dalton Transactions RSC</i> , 2001, , 2003-2008.	2.3	9
70	Simulated Moon Agglutinates Obtained from Zeolite Precursor by Means of a Low-Cost and Scalable Synthesis Method. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1884-1895.	1.2	9
71	Nanoparticles of CoAPO-5: synthesis and comparison with microcrystalline samples. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 10774-10780.	1.3	8
72	Application of highly porous materials for simazine removal from aqueous solutions. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 2428-2434.	1.2	8

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73	Parameters Expediting the Thermal Conversion of Ba-Exchanged Zeolite A to Monoclinic Celsian. <i>Advances in Materials Science and Engineering</i> , 2010, 2010, 1-8.	1.0	7
74	Microwave assisted hydrothermal conversion of Ba-exchanged zeolite A into metastable paracelsian. <i>Microporous and Mesoporous Materials</i> , 2006, 96, 9-13.	2.2	6
75	Modes of Interaction of Simazine with the Surface of Amorphous Silica in Water. Part II: Adsorption at Temperatures Higher than Ambient. <i>Journal of Physical Chemistry C</i> , 2013, 117, 27047-27051.	1.5	6
76	Adsorption of simazine on zeolite H-Y and sol-gel technique manufactured porous silica: A comparative study in model and natural waters. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2015, 50, 777-787.	0.7	6
77	New Insights in the Production of Simulated Moon Agglutinates: the Use of Natural Zeolite-Bearing Rocks. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 1631-1646.	1.2	6
78	Effect of RE ³⁺ on Structural Evolution of Rare-Earth Carbonates Synthesized by Facile Hydrothermal Treatment. <i>Advances in Materials Science and Engineering</i> , 2019, 2019, 1-10.	1.0	5
79	CO ₂ abatement and CH ₄ recovery at vehicle exhausts: Comparison and characterization of Ru powder and pellet catalysts. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 8640-8648.	3.8	5
80	Thermally induced structural and microstructural evolution of barium exchanged zeolite A to celsian. <i>Studies in Surface Science and Catalysis</i> , 2005, , 249-260.	1.5	4
81	Influence of the Devitrification Mechanism on Second Harmonic Generation Efficiency and Transparency in Ba ₂ Nb ₅ O ₁₅ Nanostructures. <i>Journal of Physical Chemistry C</i> , 2012, 116, 26874-26880.	1.5	4
82	Flame Pyrolysis Synthesis of Mixed Oxides for Glycerol Steam Reforming. <i>Materials</i> , 2021, 14, 652.	1.3	4
83	Muon spin relaxation study of phosphosilicate gels. <i>Solid State Ionics</i> , 2020, 348, 115287.	1.3	3
84	Effect of residual Na on the low temperature synthesis of monoclinic celsian from zeolite Ba-A. <i>Studies in Surface Science and Catalysis</i> , 2008, 174, 197-200.	1.5	2
85	Synthesis and Characterization of Fe-doped Aluminosilicate Nanotubes with Enhanced Electron Conductive Properties. <i>Journal of Visualized Experiments</i> , 2016, , .	0.2	1
86	Magnetic clustering of weakly interacting Ni-ions in Ni-exchanged zeolites. <i>Microporous and Mesoporous Materials</i> , 2022, 335, 111786.	2.2	1
87	Photocatalysts for Organics Degradation. <i>Catalysts</i> , 2019, 9, 870.	1.6	0