Fabio Marmottini

List of Publications by Year
in descending order

70	3,095	147566	155451
papers	citations	31 h-index	55 g-index

74	74	74	3814
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	New Synthetic Routes to Hydrotalcite-Like Compounds â^' Characterisation and Properties of the Obtained Materials. European Journal of Inorganic Chemistry, 1998, 1998, 1439-1446.	1.0	581
2	Zirconium Phosphite (3,3?,5,5?-Tetramethylbiphenyl)diphosphonate, a Microporous, Layered, Inorganic-Organic Polymer. Angewandte Chemie International Edition in English, 1993, 32, 1357-1359.	4.4	189
3	Hydrogen production by ethanol steam reforming over Ni catalysts derived from hydrotalcite-like precursors: Catalyst characterization, catalytic activity and reaction path. Applied Catalysis A: General, 2009, 355, 83-93.	2.2	127
4	Preparation and Preliminary Characterization of a Covalently Pillared Zirconium Phosphate-Diphosphonate with Interlayer Microporosity. Angewandte Chemie International Edition in English, 1994, 33, 1594-1597.	4.4	119
5	Incorporation of Mgâ€“Al hydrotalcite into a biodegradable Poly(Îµ-caprolactone) by high energy ball milling. Polymer, 2005, 46, 1601-1608.	1.8	107
6	The first route to highly stable crystalline microporous zirconium phosphonate metalâ€“organic frameworks. Chemical Communications, 2014, 50, 14831-14834.	2.2	96
7	Improvement of dissolution rate of piroxicam by inclusion into MCM-41 mesoporous silicate. European Journal of Pharmaceutical Sciences, 2007, 32, 216-222.	1.9	91
8	Mixed Membrane Matrices Based on Nafion/UiO-66/SO₃H-UiO-66 Nano-MOFs: Revealing the Effect of Crystal Size, Sulfonation, and Filler Loading on the Mechanical and Conductivity Properties. ACS Applied Materials & Interfaces, 2017, 9, 42239-42246.	4.0	90
9	An IR study of methanol steam reforming over ex-hydrotalcite Cuâ€“Znâ€“Al catalysts. Journal of Molecular Catalysis A, 2007, 266, 188-197.	4.8	79
10	Methanol steam reforming over ex-hydrotalcite Cuâ€“Znâ€“Al catalysts. Applied Catalysis A: General, 2006, 310, 70-78.	2.2	77
11	Chitosan films containing mesoporous SBA-15 supported silver nanoparticles for wound dressing. Journal of Materials Chemistry B, 2014, 2, 6054.	2.9	75
12	Adsorptive removal of H 2 S in biogas conditions for high temperature fuel cell systems. International Journal of Hydrogen Energy, 2014, 39, 21753-21766.	3.8	68
13	MCM-41 for furosemide dissolution improvement. Microporous and Mesoporous Materials, 2012, 147, 343-349.	2.2	66
14	Role of mesoporous silicates on carbamazepine dissolution rate enhancement. Microporous and Mesoporous Materials, 2008, 113, 445-452.	2.2	64
15	Use of SBA-15 for furosemide oral delivery enhancement. European Journal of Pharmaceutical Sciences, 2012, 46, 43-48.	1.9	60
16	Solvent-Free Synthetic Route for Cerium(IV) Metalâ€“Organic Frameworks with UiO-66 Architecture and Their Photocatalytic Applications. ACS Applied Materials & Interfaces, 2019, 11, 45031-45037.	4.0	58
17	Gels of zirconium phosphate in organic solvents and their use for the preparation of polymeric nanocomposites. Journal of Materials Chemistry, 2005, 15, 4262.	6.7	57
18	Cuâ€“Znâ€“Al hydrotalcites as precursors of catalysts for the production of hydrogen from methanol. Solid State Ionics, 2005, 176, 2917-2922.	1.3	53

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19	Solvent dependent synthesis of micro- and nano- crystalline phosphinate based 1D tubular MOF: structure and CO2 adsorption selectivity. CrystEngComm, 2012, 14, 7170.	1.3	49
20	Intercalation of Î±,Ï‰-alkyldiamines in layered Î±-zirconium phosphate and the inclusion behaviour of some of the intercalates obtained. Journal of Inclusion Phenomena, 1988, 6, 291-306.	0.6	44
21	Solventless Supramolecular Chemistry via Vapor Diffusion of Volatile Small Molecules upon a New Trinuclear Silver(I)-Nitrated Pyrazolate Macrometallocyclic Solid: An Experimental/Theoretical Investigation of the Dipole/Quadrupole Chemisorption Phenomena. Inorganic Chemistry, 2013, 52, 14124-14137.	1.9	42
22	Integrated single particle-bulk chemical approach for the characterization of local and long range sources of particulate pollutants. Atmospheric Environment, 2012, 50, 267-277.	1.9	41
23	Extensive Screening of Green Solvents for Safe and Sustainable UiO-66 Synthesis. ACS Sustainable Chemistry and Engineering, 2020, 8, 17154-17164.	3.2	41
24	Mesoporous Silicate MCM-41 as a Particulate Carrier for Octyl Methoxycinnamate: Sunscreen Release and Photostability. Journal of Pharmaceutical Sciences, 2013, 102, 1468-1475.	1.6	39
25	Methods of preparation of novel composites of poly(?-caprolactone) and a modified Mg/Al hydrotalcite. Journal of Polymer Science Part A, 2005, 43, 2281-2290.	2.5	35
26	New zirconium hydrogen phosphate alkyl and/or aryl phosphonates with high surface area as heterogeneous BrÃ¸nsted acid catalysts for aza-Dielsâ€“Alder reaction in aqueous medium. Journal of Catalysis, 2011, 277, 80-87.	3.1	35
27	Adsorption of Myoglobin onto Porous Zirconium Phosphate and Zirconium Benzenephosphonate Obtained with Template Synthesis. Langmuir, 2006, 22, 5064-5069.	1.6	34
28	Zirconimphosphitâ€(3,3â€²5,5â€²â€tetramethylbiphenyl)diphosphonat: ein mikroporÃ¶ses anorganischâ€organisches Polymer mit SÃlenâ€Schichtstruktur. Angewandte Chemie, 1993, 105, 1396-1398.	1.6	33
29	Title is missing!. Journal of Porous Materials, 1999, 6, 299-305.	1.3	33
30	Econazole Nitrate-Loaded MCM-41 for an Antifungal Topical Powder Formulation. Journal of Pharmaceutical Sciences, 2010, 99, 4738-4745.	1.6	33
31	Intercalation of acrylate anions into the galleries of Znâ€“Al layered double hydroxide. Journal of Physics and Chemistry of Solids, 2007, 68, 808-812.	1.9	32
32	Formation of Aqueous Colloidal Dispersions of Exfoliated Î³-Zirconium Phosphate by Intercalation of Short Alkylamines. Langmuir, 2000, 16, 7663-7668.	1.6	31
33	Intercalation Processes ofn-Alkyl Monoamines in Î³-Zirconium Phosphate. Langmuir, 2000, 16, 4165-4170.	1.6	31
34	Amorphous carbamazepine stabilization by the mesoporous silicate SBA-15. Microporous and Mesoporous Materials, 2013, 177, 1-7.	2.2	30
35	Preparation of a composite Î³-zirconium phosphate-silica with large specific surface and its first characterisation as acid catalyst. Applied Catalysis A: General, 2001, 218, 219-228.	2.2	27
36	Effect of MCM-41 on the dissolution rate of the poorly soluble plant growth regulator, the indole-3-butyric acid. Microporous and Mesoporous Materials, 2006, 96, 177-183.	2.2	27

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37	Preparation of Layered Î±-Zirconium Phosphate with a Controlled Degree of Hydrolysis via Delamination Procedure. Journal of Colloid and Interface Science, 1993, 157, 513-515.	5.0	25
38	Gas phase photocatalytic efficiency of TiO2 powders evaluated by acetone photodegradation. Journal of Photochemistry and Photobiology A: Chemistry, 2013, 268, 1-6.	2.0	25
39	Iridium-Doped Nanosized Znâ€“Al Layered Double Hydroxides as Efficient Water Oxidation Catalysts. ACS Applied Materials & Interfaces, 2020, 12, 32736-32745.	4.0	24
40	Metal exchanged layered zirconium hydrogen phosphate as base catalyst of the Michael reaction. Catalysis Letters, 1993, 22, 333-336.	1.4	23
41	A snapshot of a coordination polymer self-assembly process: the crystallization of a metastable 3D network followed by the spontaneous transformation in water to a 2D pseudopolymorphic phase. Chemical Communications, 2008, , 6381.	2.2	20
42	â€œShake â€˜n Bakeâ€•Route to Functionalized Zr-UiO-66 Metalâ€“Organic Frameworks. Inorganic Chemistry, 2021, 60, 14294-14301.	1.9	20
43	Zirconium phosphate nanoparticles from water-in-oil microemulsions. Colloid and Polymer Science, 2006, 285, 19-25.	1.0	19
44	On the evolution of proton conductivity of Aquivion membranes loaded with CeO2 based nanofillers: Effect of temperature and relative humidity. Journal of Membrane Science, 2019, 574, 17-23.	4.1	19
45	Development of sodium carboxymethyl cellulose based polymeric microparticles for in situ hydrogel wound dressing formation. International Journal of Pharmaceutics, 2021, 602, 120606.	2.6	18
46	Silicaâ€“zirconium phosphateâ€“phosphoric acid composites: preparation, proton conductivity and use in gas sensors. Solid State Ionics, 2004, 166, 19-25.	1.3	16
47	Mesoporous silicate MCM-41 containing organic ultraviolet ray absorbents: Preparation, photostability and in vitro release. Journal of Physics and Chemistry of Solids, 2007, 68, 1173-1177.	1.9	16
48	Chlorhexidine MCM-41 Mucoadhesive Tablets for Topical Use. Journal of Pharmaceutical Innovation, 2009, 4, 156-164.	1.1	13
49	Oxybenzone Entrapped in Mesoporous Silicate MCM-41. Journal of Pharmaceutical Innovation, 2013, 8, 212-217.	1.1	13
50	Effects of different milling techniques on the layered double hydroxides final properties. Applied Clay Science, 2018, 151, 124-133.	2.6	13
51	Triplet-triplet annihilation based upconversion in silica matrices. Microporous and Mesoporous Materials, 2017, 246, 120-129.	2.2	11
52	Title is missing!. Journal of Catalysis, 2004, 228, 43-55.	3.1	10
53	Zirconium potassium phosphate methyl and/or phenyl phosphonates as heterogeneous catalysts for Knoevenagel condensation under solvent free conditions. Microporous and Mesoporous Materials, 2018, 268, 251-259.	2.2	10
54	Post Synthetic Defect Engineering of UiO-66 Metalâ€“Organic Framework with An Iridium(III)-HEDTA Complex and Application in Water Oxidation Catalysis. Inorganics, 2019, 7, 123.	1.2	9

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55	Synthesis and Characterization of Novel Alumina-Pillared Î³-Zirconium Phosphates. Langmuir, 2001, 17, 3769-3775.	1.6	8
56	Microporous material from kanemite for drug inclusion and release. Il Farmaco, 2001, 56, 421-425.	0.9	8
57	Use of calcined Mgâ€“Alâ€“hydrotalcite to enhance the stability of celecoxib in the amorphous form. European Journal of Pharmaceutics and Biopharmaceutics, 2007, 66, 253-259.	2.0	8
58	Production of nitric oxide by human salivary peroxidase and by bovine lactoperoxidase. Journal of Biochemical and Molecular Toxicology, 2012, 26, 87-93.	1.4	8
59	Intercalation of diamines into zirconium phosphate-phosphite: A layered compound with asymmetric layers. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 1989, 7, 549-560.	1.6	7
60	Insertion of Porous Chromia in Î³-Zirconium Phosphate and Its Catalytic Performance in the Oxidative Dehydrogenation of Propane. Langmuir, 2000, 16, 3317-3321.	1.6	7
61	Chlorhexidine-loaded functionalized mesoporous MCM-41 poly(methylmethacrylate) based composites with Candida antibiofilm activity. RSC Advances, 2015, 5, 84827-84835.	1.7	6
62	Resin-Based Materials with Chlorhexidine-Loaded MCM-41: Surface Characteristics, Drug Release, and Antibiofilm Activity. ACS Biomaterials Science and Engineering, 2018, 4, 4144-4153.	2.6	6
63	Structure of layered Î±-zirconium phosphite and zirconium phosphateâ€”phosphites from X-ray powder diffraction data. Microporous Materials, 1993, 2, 41-54.	1.6	4
64	Photocatalytic Activity inCH3CN Related to the Surface Properties ofTiO2Powders Prepared by Sol-Gel Method. International Journal of Photoenergy, 2009, 2009, 1-6.	1.4	4
65	Title is missing!. Journal of Catalysis, 2004, 228, 56-65.	3.1	3
66	Nitrogen Adsorption on Zirconium Bis Monohydrogenphosphate with Î±-Type Structure. , 1993, , 37-48.		2
67	Layered Double Hydroxides as Supports for Norbornene Addition Polymerisation Catalysts. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2003, 58, 1069-1074.	0.3	1
68	Ion Exchange and Intercalation Properties of Acid Salts of Zr(IV) with Two Different Functional Groups. , 1987, , 249-256.		1
69	Selective liberation of NO from S-nitrosocysteine with potassium thiocyanate, as monitored by an amperometric sensor. Archives of Biochemistry and Biophysics, 2004, 432, 37-40.	1.4	0
70	Dentifrice Based on Fluorideâ€“Hydrotalcite Compounds: Characterization and Release Capacity Evaluation by Novel In Vitro Methods. AAPS PharmSciTech, 2019, 20, 248.	1.5	0