Enrica Gianotti

List of Publications by Year
in descending order

90 papers	2,955 citations	147801 31 h-index	175258 52 g-index
92 all docs	92 docs citations	92 times ranked	3315 citing authors

#	Article	IF	Citations
1	Vibrational Spectroscopy of NH4+Ions in Zeolitic Materials:Â An IR Study. Journal of Physical Chemistry B, 1997, 101, 10128-10135.	2.6	248
2	Probing the Titanium Sites in Tiâˆ'MCM41 by Diffuse Reflectance and Photoluminescence UVâˆ'Vis Spectroscopies. Journal of Physical Chemistry B, 1997, 101, 8836-8838.	2.6	210
3	Structureâ€"functionality relationships of grafted Ti-MCM41 silicas. Spectroscopic and catalytic studies. Physical Chemistry Chemical Physics, 1999, 1, 585-592.	2.8	170
4	Combined solid-state NMR, FT-IR and computational studies on layered and porous materials. Chemical Society Reviews, 2018, 47, 5684-5739.	38.1	123
5	A quantitative description of the active sites in the dehydrated acid catalyst HSAPO-34 for the conversion of methanol to olefins. Catalysis Letters, 1996, 41, 13-16.	2.6	101
6	One-Step Synthesis of a Highly Active, Mesoporous, Titanium-Containing Silica by Using Bifunctional Templating. Chemistry - A European Journal, 2001, 7, 1437-1443.	3.3	101
7	ALPO-34 and SAPO-34 synthesized by using morpholine as templating agent. FTIR and FT-Raman studies of the hostâ€"guest and guestâ€"guest interactions within the zeolitic framework. Microporous and Mesoporous Materials, 1999, 30, 145-153.	4.4	91
8	Heterogeneous catalytic epoxidation of fatty acid methyl esters on titanium-grafted silicas. Green Chemistry, 2003, 5, 421.	9.0	82
9	Epoxidation of unsaturated FAMEs obtained from vegetable source over Ti(IV)-grafted silica catalysts: A comparison between ordered and non-ordered mesoporous materials. Journal of Molecular Catalysis A, 2006, 250, 218-225.	4.8	78
10	An Efficient Rose Bengal Based Nanoplatform for Photodynamic Therapy. Chemistry - A European Journal, 2014, 20, 10921-10925.	3.3	75
11	Ti(IV) Catalytic Centers Grafted on Different Siliceous Materials:â€‰ Spectroscopic and Catalytic Study. Journal of Physical Chemistry C, 2007, 111, 5083-5089.	3.1	64
12	Designing bifunctional acidâ€"base mesoporous hybrid catalysts for cascade reactions. Catalysis Science and Technology, 2013, 3, 2677.	4.1	64
13	NH3adsorption on MCM-41 and Ti-grafted MCM-41. FTIR, DR UVâ€"Visâ€"NIR and photoluminescence studies. Physical Chemistry Chemical Physics, 2002, 4, 6109-6115.	2.8	60
14	NIR Persistent Luminescence of Lanthanide Ion-Doped Rare-Earth Oxycarbonates: The Effect of Dopants. ACS Applied Materials & Interfaces, 2014, 6, 17346-17351.	8.0	59
15	Rose Bengal incorporated in mesostructured silica nanoparticles: structural characterization, theoretical modeling and singlet oxygen delivery. Physical Chemistry Chemical Physics, 2015, 17, 26804-26812.	2.8	57
16	Active Biocatalysts Based on Pepsin Immobilized in Mesoporous SBA-15. Journal of Physical Chemistry C, 2008, 112, 18110-18116.	3.1	54
17	New Catalytic Liquid-Phase Ammoxidation Approach to the Preparation of Niacin (Vitamin) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	3.5	54
18	The effect of silylation on titanium-containing silica catalysts for the epoxidation of functionalised molecules. Microporous and Mesoporous Materials, 2008, 111, 39-47.	4.4	47

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19	The identity of titanium centres in microporous aluminophosphates compared with Ti-MCM-41 mesoporous catalyst and titanosilsesquioxane dimer molecular complex: a spectroscopy study. Journal of Molecular Catalysis A, 2003, 204-205, 483-489.	4.8	46
20	Toward Understanding the Catalytic Synergy in the Design of Bimetallic Molecular Sieves for Selective Aerobic Oxidations. Journal of the American Chemical Society, 2013, 135, 2915-2918.	13.7	41
21	Engineering active sites for enhancing synergy in heterogeneous catalytic oxidations. Chemical Communications, 2011, 47, 517-519.	4.1	40
22	A Spectroscopic Study of Group IV Transition Metal Incorporated Direct Templated Mesoporous Catalysts Part 1:Â A Comparison between Materials Synthesized Using Hydrophobic and Hydrophilic Ti Precursors. Journal of Physical Chemistry B, 2000, 104, 7102-7109.	2.6	39
23	Role of Isolated Acid Sites and Influence of Pore Diameter in the Low-Temperature Dehydration of Ethanol. ACS Catalysis, 2014, 4, 4161-4169.	11.2	39
24	Verteporfin based silica nanoparticle for in vitro selective inhibition of human highly invasive melanoma cell proliferation. Journal of Photochemistry and Photobiology B: Biology, 2017, 167, 1-6.	3.8	39
25	Rationalising the role of solid-acid sites in the design of versatile single-site heterogeneous catalysts for targeted acid-catalysed transformations. Chemical Science, 2014, 5, 1810-1819.	7.4	38
26	Unraveling the Decomposition Process of Lead(II) Acetate: Anhydrous Polymorphs, Hydrates, and Byproducts and Room Temperature Phosphorescence. Inorganic Chemistry, 2016, 55, 8576-8586.	4.0	38
27	Mesoporous Silica Scaffolds as Precursor to Drive the Formation of Hierarchical SAPOâ€34 with Tunable Acid Properties. Chemistry - A European Journal, 2017, 23, 9952-9961.	3.3	38
28	Acidic and basic sites in NaX and NaY faujasites investigated by NH3, CO2 and CO molecular probes. Research on Chemical Intermediates, 1999, 25, 77-93.	2.7	37
29	Understanding the Vibrational and Electronic Features of Ti(IV) Sites in Mesoporous Silicas by Integrated Ab Initio and Spectroscopic Investigations. Journal of Physical Chemistry C, 2007, 111, 4946-4955.	3.1	37
30	Optimized Rhodamine B labeled mesoporous silica nanoparticles as fluorescent scaffolds for the immobilization of photosensitizers: a theranostic platform for optical imaging and photodynamic therapy. Physical Chemistry Chemical Physics, 2016, 18, 9042-9052.	2.8	35
31	The interaction of NO with Co2+/Co3+ redox centres in CoAPOs catalysts: FTIR and UVâ€"VIS investigations. Catalysis Today, 1999, 54, 547-552.	4.4	34
32	Spectroscopic characterisation of microporous aluminophosphate materials with potential application in environmental catalysis. Catalysis Today, 2003, 77, 371-384.	4.4	33
33	Photoactive Hybrid Nanomaterials: Indocyanine Immobilized in Mesoporous MCM-41 for â€œIn-Cellâ€• Bioimaging. ACS Applied Materials & Interfaces, 2009, 1, 678-687.	8.0	30
34	Creating Accessible Active Sites in Hierarchical MFI Zeolites for Lowâ€Temperature Acid Catalysis. ChemCatChem, 2016, 8, 3161-3169.	3.7	30
35	Titaniumâ€"Silica Catalysts for the Production of Fully Epoxidised Fatty Acid Methyl Esters. Catalysis Letters, 2008, 122, 53-56.	2.6	28
36	In Situ FT-IR Characterization of CuZnZr/Ferrierite Hybrid Catalysts for One-Pot CO2-to-DME Conversion. Materials, 2018, 11, 2275.	2.9	28

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37	Verteporfin-loaded mesoporous silica nanoparticles inhibit mouse melanoma proliferation in vitro and in vivo. Journal of Photochemistry and Photobiology B: Biology, 2019, 197, 111533.	3.8	28
38	Catalytic dehydrogenation of propane over cluster-derived Irâ€“Sn/SiO2 catalysts. Catalysis Letters, 2006, 112, 89-95.	2.6	26
39	Assessing the Brï¿½nsted acidity of CoAPO-18 catalysts by using N2 as molecular probe. Catalysis Letters, 1996, 37, 107-111.	2.6	24
40	Mesoporous silica nanoparticles incorporating squaraine-based photosensitizers: a combined experimental and computational approach. Dalton Transactions, 2018, 47, 3038-3046.	3.3	24
41	Synthesis and surface properties of Ti-containing mesoporous aluminophosphates. A comparison with Ti-grafted mesoporous silica Ti-MCM-41. Inorganica Chimica Acta, 2003, 349, 259-264.	2.4	23
42	Spectroscopic tools for probing the isolated titanium centres in MCM41 mesoporous catalysts. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1997, 19, 1707-1718.	0.4	22
43	One-pot incorporation of titanium catalytic sites into mesoporous true liquid crystal templated (TLCT) silica. Chemical Communications, 1999, , 87-88.	4.1	22
44	Bright photoluminescent hybrid mesostructured silica nanoparticles. Physical Chemistry Chemical Physics, 2012, 14, 10015.	2.8	20
45	Hierarchical SAPOâ€ß4 Architectures with Tailored Acid Sites using Sustainable Sugar Templates. ChemistryOpen, 2018, 7, 297-301.	1.9	19
46	In situ synchrotron small-angle X-ray scattering study of MCM-41 crystallisation using Gemini surfactants. Catalysis Today, 2007, 126, 203-210.	4.4	18
47	Hybrid organicâ€“inorganic catalytic mesoporous materials with proton sponges as building blocks. Physical Chemistry Chemical Physics, 2011, 13, 11702.	2.8	18
48	Spectroscopic investigation into the nature of the active sites for epoxidation reactions using vanadium-based aluminophosphate catalysts. Microporous and Mesoporous Materials, 2011, 138, 167-175.	4.4	18
49	Highly effective design strategy for the heterogenisation of chemo- and enantioselective organocatalysts. Catalysis Science and Technology, 2015, 5, 660-665.	4.1	16
50	Ru_xPt_ySn_zcluster-derived nanoparticlecatalysts: spectroscopic investigation into the nature of active multinuclear single sites. Dalton Transactions, 2012, 41, 982-989.	3.3	15
51	Investigating site-specific interactions and probing their role in modifying the acid-strength in framework architectures. Physical Chemistry Chemical Physics, 2013, 15, 13288.	2.8	15
52	Mesoporous Silica Nanoparticles Functionalized with Amino Groups for Biomedical Applications. ChemistryOpen, 2021, 10, 1251-1259.	1.9	15
53	Innovative nanoporous materials: metal-aluminophosphates. Materials Science and Engineering C, 2001, 15, 219-229.	7.3	14
54	Synergistic Behavior of Bimetallic Rhenium Cluster Catalysts: Spectroscopic Investigation into the Nature of the Active Site. Chemistry - A European Journal, 2010, 16, 8202-8209.	3.3	13

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55	Title is missing!. Catalysis Letters, 2001, 76, 21-26.	2.6	12
56	On the Compatibility Criteria for Protein Encapsulation inside Mesoporous Materials. ChemPhysChem, 2010, 11, 1757-1762.	2.1	12
57	Disentangling proteinâ€“silica interactions. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 1463-1477.	3.4	11
58	Probing the Design Rationale of a Highâ€Performing Faujasitic Zeotype Engineered to have Hierarchical Porosity and Moderated Acidity. Angewandte Chemie - International Edition, 2020, 59, 19561-19569.	13.8	11
59	The Application of UV-Visible-NIR Spectroscopy to Oxides. , 0, , 51-94.		10
60	Coexistence of framework Co2+ and non framework Co0 in CoAPO-5. Microporous and Mesoporous Materials, 2009, 123, 91-99.	4.4	10
61	Spectroscopic and catalytic investigation of the NO reactivity on CoAPOs with chabasite-like structure. Studies in Surface Science and Catalysis, 2000, , 3005-3010.	1.5	9
62	Unequivocal evidence of the presence of titanols in Ti-MCM-48 mesoporous materials. A combined diffuse reflectance UV-Vis-Nir and 29Si-MAS-NMR study. Research on Chemical Intermediates, 2004, 30, 871-877.	2.7	9
63	The role of isolated active centres in high-performance bioinspired selective oxidation catalysts. Chemical Communications, 2010, 46, 2805.	4.1	9
64	Strong Organic Bases as Building Blocks of Mesoporous Hybrid Catalysts for C-C Forming Bond Reactions. European Journal of Inorganic Chemistry, 2012, 2012, 5175-5185.	2.0	9
65	Verteporfin based silica nanoplatform for photodynamic therapy. ChemistrySelect, 2016, 1, 127-131.	1.5	9
66	Acidity of mesoporous aluminophosphates and silicas MCM-41. A combined FTIR and UV-Vis-NIR study. Studies in Surface Science and Catalysis, 2002, 142, 1419-1426.	1.5	8
67	Photoactive Ru Complex Embedded in Mesostructured MCM-41 Nanoparticles. Journal of Fluorescence, 2011, 21, 901-909.	2.5	8
68	Facile synthesis of NIR and Visible luminescent Sm 3+ doped lutetium oxide nanoparticles. Materials Research Bulletin, 2017, 86, 220-227.	5.2	8
69	Integrated Theoretical and Empirical Studies for Probing Substrateâ€“Framework Interactions in Hierarchical Catalysts. Chemistry - A European Journal, 2019, 25, 9938-9947.	3.3	7
70	Rational design of bifunctional hierarchical Pd/SAPO-5 for the synthesis of tetrahydrofuran derivatives from furfural. Journal of Catalysis, 2021, 397, 75-89.	6.2	7
71	Meso-ALPO prepared by thermal decomposition of the organic-inorganic composite: A FTIR study. Studies in Surface Science and Catalysis, 2002, , 417-422.	1.5	6
72	FTIR Study of Cobalt Containing Aluminophosphates with Chabasite Like Structure by Using CO and NO as Molecular Probes. Catalysis Letters, 2009, 133, 27-32.	2.6	6

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73	Verteporfin-Loaded Mesoporous Silica Nanoparticlesâ€™ Topical Applications Inhibit Mouse Melanoma Lymphangiogenesis and Micrometastasis In Vivo. International Journal of Molecular Sciences, 2021, 22, 13443.	4.1	6
74	CD3CN and NH3 interaction with Ti(IV) catalytic centres grafted on mesoporous MCM-41. Studies in Surface Science and Catalysis, 2005, , 311-320.	1.5	5
75	Influence of Silicodactyly in the Preparation of Hybrid Materials. Molecules, 2019, 24, 848.	3.8	5
76	Hybrid catalysts based on N-heterocyclic carbene anchored on hierarchical zeolites. RSC Advances, 2019, 9, 35336-35344.	3.6	5
77	The Significance of Metal Coordination in Imidazoleâ€Functionalized Metalâ€“Organic Frameworks for Carbon Dioxide Utilization. Chemistry - A European Journal, 2020, 26, 13606-13610.	3.3	5
78	The surface acidity of mesoporous silicoaluminophosphates: A FTIR study. Studies in Surface Science and Catalysis, 2004, , 1498-1504.	1.5	4
79	Vis-NIR luminescent lanthanide-doped core-shell nanoparticles for imaging and photodynamic therapy. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 403, 112840.	3.9	4
80	Bifunctional hybrid organosiliceous catalysts for aldol condensation â€“ hydrogenation tandem reactions of furfural in continuous-flow reactor. Applied Catalysis A: General, 2022, 643, 118710.	4.3	4
81	Photoluminescence study of mesoporous MCM-41 and Ti-grafted MCM-41. Research on Chemical Intermediates, 2003, 29, 681-689.	2.7	3
82	Adsorption Features of Various Inorganic Materials for the Drug Removal from Water and Synthetic Urine Medium: A Multi-Technique Time-Resolved In Situ Investigation. Materials, 2021, 14, 6196.	2.9	3
83	14-O-05-Elucidating the nature and reactivity of cobalt ions in CoAPOs. A combined FTIR and EPR study of NO and NO2 adsorbed at 77K and 298K. Studies in Surface Science and Catalysis, 2001, , 178.	1.5	2
84	Probing the Design Rationale of a Highâ€Performing Faujasitic Zeotype Engineered to have Hierarchical Porosity and Moderated Acidity. Angewandte Chemie, 2020, 132, 19729-19737.	2.0	2
85	Predicting the Conformation of Organic Catalysts Grafted on Silica Surfaces with Different Numbers of Tethering Chains: The Silicopodality Concept. Journal of Physical Chemistry C, 2021, 125, 21199-21210.	3.1	2
86	Red Upconverter Nanocrystals Functionalized with Verteporfin for Photodynamic Therapy Triggered by Upconversion. International Journal of Molecular Sciences, 2022, 23, 6951.	4.1	2
87	Challenges in biocatalysis: immobilization of pepsin in mesoporous silicates. Studies in Surface Science and Catalysis, 2008, 174, 1327-1330.	1.5	1
88	Acid properties of organosiliceous hybrid materials based on pendant (fluoro)aryl-sulfonic groups through a spectroscopic study with probe molecules. Catalysis Science and Technology, 2019, 9, 6308-6317.	4.1	1
89	Spectroscopic Characterization of Microporous Aluminophosphate Materials with Potential Application in Environmental Catalysis. ChemInform, 2003, 34, no.	0.0	0
90	A smart use of biomass derivatives to template an <i>ad hoc</i> hierarchical SAPO-5 acid catalyst. RSC Advances, 2020, 10, 38578-38582.	3.6	0