Matteo Guidotti

List of Publications by Year
in descending order

86	2,507	28	48
papers	citations	h-index	g-index
		186265	206112

100	100	100	2754
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bimetallic heterogeneous catalysts for hydrogen production. Catalysis Today, 2012, 197, 190-205.	4.4	173
2	Surface organometallic chemistry in heterogeneous catalysis. Chemical Society Reviews, 2018, 47, 8403-8437.	38.1	146
3	Epoxidation on titanium-containing silicates: do structural features really affect the catalytic performance?. Journal of Catalysis, 2003, 214, 242-250.	6.2	105
4	Mono- and Bifunctional Heterogeneous Catalytic Transformation of Terpenes and Terpenoids. Topics in Catalysis, 2004, 27, 157-168.	2.8	92
5	The use of H2O2 over titanium-grafted mesoporous silica catalysts: a step further towards sustainable epoxidation. Green Chemistry, 2009, 11, 1421.	9.0	89
6	Niobium(V) Saponite Clay for the Catalytic Oxidative Abatement of Chemical Warfare Agents. Angewandte Chemie - International Edition, 2014, 53, 10095-10098.	13.8	83
7	Heterogeneous catalytic epoxidation of fatty acid methyl esters on titanium-grafted silicas. Green Chemistry, 2003, 5, 421.	9.0	82
8	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
9	Epoxidation of methyl oleate with hydrogen peroxide. The use of Ti-containing silica solids as efficient heterogeneous catalysts. Green Chemistry, 2011, 13, 1806.	9.0	70
10	Catalytic epoxidation of unsaturated alcohols on Ti-MCM-41. Catalysis Today, 2000, 60, 219-225.	4.4	69
11	Niobium metallocenes deposited onto mesoporous silica via dry impregnation as catalysts for selective epoxidation of alkenes. Journal of Catalysis, 2013, 298, 77-83.	6.2	65
12	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
13	Design and Use of Nanostructured Single-Site Heterogeneous Catalysts for the Selective Transformation of Fine Chemicals. Molecules, 2010, 15, 3829-3856.	3.8	60
14	Niobiumâ€“silica catalysts for the selective epoxidation of cyclic alkenes: the generation of the active site by grafting niobocene dichloride. Physical Chemistry Chemical Physics, 2013, 15, 13354.	2.8	59
15	Acetylation of aromatic compounds over H-BEA zeolite: the influence of the substituents on the reactivity and on the catalyst stability. Journal of Catalysis, 2005, 230, 375-383.	6.2	58
16	Highly Selective Oxidation of Alkylphenols to Benzoquinones with Hydrogen Peroxide over Silicaâ€Supported Titanium Catalysts: Titanium Cluster Site <i>versus</i> Titanium Single Site. Advanced Synthesis and Catalysis, 2009, 351, 1877-1889.	4.3	51
17	Preparation and characterisation of mesoporous silicaâ€“alumina and silicaâ€“titania with a narrow pore size distribution. Catalysis Today, 2003, 77, 315-323.	4.4	48
18	Highly efficient production of 2,3,5-trimethyl-1,4-benzoquinone using aqueous H2O2 and grafted Ti(iv)/SiO2 catalyst. Green Chemistry, 2007, 9, 731.	9.0	48

#	Article	IF	Citations
19	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
20	Titanosilsesquioxane Anchored on Mesoporous Silicas: A Novel Approach for the Preparation of Heterogeneous Catalysts for Selective Oxidations. Chemistry - A European Journal, 2008, 14, 8098-8101.	3.3	44
21	How to reach 100% selectivity in H2O2-based oxidation of 2,3,6-trimethylphenol to trimethyl-p-benzoquinone over Ti,Si-catalysts. Catalysis Today, 2009, 141, 330-336.	4.4	44
22	Epoxidation with hydrogen peroxide of unsaturated fatty acid methyl esters over Nb(V)â€silica catalysts. European Journal of Lipid Science and Technology, 2013, 115, 86-93.	1.5	43
23	Rational design of single-site heterogeneous catalysts: towards high chemo-, regio- and stereoselectivity. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2012, 468, 1904-1926.	2.1	40
24	Nanosized inorganic metal oxides as heterogeneous catalysts for the degradation of chemical warfare agents. Catalysis Today, 2016, 277, 192-199.	4.4	39
25	Grafted non-ordered niobium-silica materials: Versatile catalysts for the selective epoxidation of various unsaturated fine chemicals. Catalysis Today, 2014, 235, 49-57.	4.4	36
26	Multifunctional Catalysis Promoted by Solvent Effects: Ti-MCM41 for a One-Pot, Four-Step, Epoxidationâ€"Rearrangementâ€"Oxidationâ€"Decarboxylation Reaction Sequence on Stilbenes and Styrenes. ACS Catalysis, 2015, 5, 3552-3561.	11.2	36
27	Tailoring the Hydrophobic Character of Mesoporous Silica by Silylation for VOC Removal. Separation Science and Technology, 2010, 45, 768-775.	2.5	34
28	Fe-Doped TiO2 Supported on HY Zeolite for Solar Photocatalytic Treatment of Dye Pollutants. Catalysts, 2017, 7, 344.	3.5	31
29	Titaniumâ€"Silica Catalysts for the Production of Fully Epoxidised Fatty Acid Methyl Esters. Catalysis Letters, 2008, 122, 53-56.	2.6	28
30	Mesoporous molecular sieves containing niobium(V) as catalysts for the epoxidation of fatty acid methyl esters and rapeseed oil. Journal of Cleaner Production, 2017, 166, 901-909.	9.3	28
31	Diastereoselective epoxidation of hydroxy-containing unsaturated terpenes on heterogeneous titanium-catalyst. Journal of Molecular Catalysis A, 2002, 182-183, 151-156.	4.8	27
32	One-pot conversion of citronellal into isopulegol epoxide on mesoporous titanium silicate. Chemical Communications, 2000, , 1789-1790.	4.1	26
33	Catalytic dehydrogenation of propane over cluster-derived Irâ€"Sn/SiO2 catalysts. Catalysis Letters, 2006, 112, 89-95.	2.6	26
34	Immersion Calorimetry as a Tool To Evaluate the Catalytic Performance of Titanosilicate Materials in the Epoxidation of Cyclohexene. Langmuir, 2011, 27, 3618-3625.	3.5	26
35	Tungstenocene-grafted silica catalysts for the selective epoxidation of alkenes. Applied Catalysis A: General, 2019, 581, 133-142.	4.3	25
36	An efficient ring opening reaction of methyl epoxystearate promoted by synthetic acid saponite clays. Green Chemistry, 2009, 11, 1173.	9.0	24

#	Article	IF	Citations
37	Niobium-Containing Hydroxyapatites as Amphoteric Catalysts: Synthesis, Properties, and Activity. ACS Catalysis, 2014, 4, 469-479.	11.2	24
38	The stability of niobium-silica catalysts in repeated liquid-phase epoxidation tests: A comparative evaluation of in-framework and grafted mixed oxides. Inorganica Chimica Acta, 2015, 431, 190-196.	2.4	23
39	Inactivation of SARS-CoV-2 in the Liquid Phase: Are Aqueous Hydrogen Peroxide and Sodium Percarbonate Efficient Decontamination Agents?. Journal of Chemical Health and Safety, 2021, 28, 260-267.	2.1	23
40	A comparison between [Ti]-MCM-41 and amorphous mesoporous silicaâ€"titania as catalysts for the epoxidation of bulky unsaturated alcohols. Microporous and Mesoporous Materials, 2001, 44-45, 595-602.	4.4	22
41	Acetylation of aromatics over acid zeolites: Seeking a viable alternative to Friedel-Crafts catalysts. Pure and Applied Chemistry, 2007, 79, 1833-1838.	1.9	21
42	Heterogeneous Catalytic Epoxidation: High Limonene Oxide Yields by Surface Silylation of Tiâ€MCMâ€41. Chemical Engineering and Technology, 2011, 34, 1924-1927.	1.5	21
43	Ti-POSS covalently immobilized onto mesoporous silica: A model for active sites in heterogeneous catalytic epoxidation. Inorganica Chimica Acta, 2012, 380, 244-251.	2.4	21
44	Niobium(V) Saponite Clay for the Catalytic Oxidative Abatement of Chemical Warfare Agents. Angewandte Chemie, 2014, 126, 10259-10262.	2.0	21
45	An efficient epoxidation of terminal aliphatic alkenes over heterogeneous catalysts: when solvent matters. Catalysis Science and Technology, 2016, 6, 3832-3839.	4.1	21
46	Synthesis and Catalytic Activity of Titanium Silsesquioxane Frameworks as Models of Titanium Active Surface Sites of Controlled Nuclearity. Organometallics, 2010, 29, 6687-6694.	2.3	20
47	Characterization and catalytic performances of alkali-metal promoted Rh/SiO2 catalysts for propene hydroformylation. Journal of Molecular Catalysis A, 2003, 204-205, 509-518.	4.8	16
48	Iron-montmorillonite clays as active sorbents for the decontamination of hazardous chemical warfare agents. Dalton Transactions, 2018, 47, 2939-2948.	3.3	16
49	Epoxidation of Karanja (Millettia pinnata) Oil Methyl Esters in the Presence of Hydrogen Peroxide over a Simple Niobium-Containing Catalyst. Catalysts, 2019, 9, 344.	3.5	14
50	Chemical risk and chemical warfare agents: science and technology against humankind. Toxicological and Environmental Chemistry, 2016, 98, 1018-1025.	1.2	13
51	Synthetic saponite clays as promising solids for lanthanide ion recovery. New Journal of Chemistry, 2020, 44, 10033-10041.	2.8	13
52	Environmentally Benign Oxidation of Alkylphenols to p-Benzoquinones: A Comparative Study of Various Ti-Containing Catalysts. Topics in Catalysis, 2014, 57, 1377-1384.	2.8	11
53	Titanium-silica catalyst derived from defined metallic titanium cluster precursor: Synthesis and catalytic properties in selective oxidations. Inorganica Chimica Acta, 2018, 470, 393-401.	2.4	11
54	Use of titanium-containing silica catalysts prepared by rapid and straightforward method in selective oxidations. Catalysis Today, 2012, 197, 170-177.	4.4	10

#	Article	IF	Citations
55	Organicâ€"Inorganic Hybrid Saponites Obtained by Intercalation of Titanoâ€Silsesquioxane. Chemistry - an Asian Journal, 2011, 6, 914-921.	3.3	9
56	Physico-chemical Properties, Biological and Environmental Impact of Nb-saponites Catalysts for the Oxidative Degradation of Chemical Warfare Agents. ChemistrySelect, 2017, 2, 1812-1819.	1.5	9
57	Acid/Vanadiumâ€Containing Saponite for the Conversion of Propene into Coke: Potential Flameâ€Retardant Filler for Nanocomposite Materials. Chemistry - an Asian Journal, 2012, 7, 2394-2402.	3.3	8
58	More Efficient Prussian Blue Nanoparticles for an Improved Caesium Decontamination from Aqueous Solutions and Biological Fluids. Molecules, 2020, 25, 3447.	3.8	8
59	Aromatic Acetylation. , 2006, , 69-94.		7
60	Steric environment around acetylcholine head groups of bolaamphiphilic nanovesicles influences the release rate of encapsulated compounds. International Journal of Nanomedicine, 2014, 9, 561.	6.7	7
61	Alkene Epoxidation and Thioether Oxidation with Hydrogen Peroxide Catalyzed by Mesoporous Zirconium-Silicates. Catalysts, 2022, 12, 742.	3.5	7
62	Problems and Pitfalls in the Applications of Zeolites and other Microporous and Mesoporous Solids to Catalytic Fine Chemical Synthesis. , 2006, , 39-67.		6
63	Oneâ€"pot Selective Dihydroxylation of Limonene Combining Metal and Enzyme Catalysis. ChemistrySelect, 2016, 1, 1795-1798.	1.5	6
64	Bifunctional Europium(III) and Niobium(V)â€Containing Saponite Clays for the Simultaneous Optical Detection and Catalytic Oxidative Abatement of Blister Chemical Warfare Agents. Chemistry - A European Journal, 2021, 27, 4723-4730.	3.3	6
65	Title is missing!. Journal of Cluster Science, 2001, 12, 123-137.	3.3	5
66	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
67	Cluster-derived Irâ€"Sn/SiO2 catalysts for the catalytic dehydrogenation of propane: a spectroscopic study. Dalton Transactions, 2013, 42, 12714.	3.3	5
68	Nanomaterials: biological effects and some aspects of applications in ecology and agriculture. , 2014, , .		5
69	ACLEES CF. SP. FOVEATUS (COLEOPTERA CURCULIONIDAE), AN EXOTIC PEST OF FICUS CARICA IN ITALY: A SUSTAINABLE APPROACH TO DEFENCE BASED ON ALUMINOSILICATE MINERALS AS HOST PLANT MASKING SOLIDS. Redia, 0, , 201-205.	0.4	5
70	One-Pot Reactions on Bifunctional Catalysts. , 2006, , 157-169.		4
71	Tungsten oxide: a catalyst worth studying for the abatement and decontamination of chemical warfare agents. Global Security: Health, Science and Policy, 2017, 2, 62-75.	1.6	4
72	The CBRN Threat. Perspective of an Interagency Response. Advanced Sciences and Technologies for Security Applications, 2021, , 429-448.	0.5	4

#	Article	IF	Citations
73	Molecular sieve catalysts as substitutes for metal chlorides in the chemical industry: Some selected examples. Pure and Applied Chemistry, 2011, 84, 509-527.	1.9	3
74	Biocidal effects of silver and zinc oxide nanoparticles on the bioluminescent bacteria. Proceedings of SPIE, 2013, , .	0.8	3
75	Nano-structured Solids and Heterogeneous Catalysts for the Selective Decontamination of Chemical Warfare Agents. NATO Science for Peace and Security Series A: Chemistry and Biology, 2014, , 275-284.	0.5	3
76	Applications in Synthesis of Commodities and Fine Chemicals. , 2009, , 275-347.		3
77	Structured Inorganic Oxide-Based Materials for the Absorption and Destruction of CBRN Agents. NATO Science for Peace and Security Series B: Physics and Biophysics, 2013, , 43-53.	0.3	2
78	DEACTIVATION OF MOLECULAR SIEVES IN THE SYNTHESIS OF ORGANIC CHEMICALS. Catalytic Science Series, 2011, , 303-334.	0.0	2
79	(A211) Nanosciences and CBRN Threats: Considerations about the Potential Risk of Illicit Use of Nanosystems. Prehospital and Disaster Medicine, 2011, 26, s58-s58.	1.3	1
80	(A204) Importance of Emergency Response Program Organizations in Coping with the Increasing Risk of CBRN Events. Prehospital and Disaster Medicine, 2011, 26, s56-s56.	1.3	1
81	Design and Applications of Multifunctional Catalysts Based on Inorganic Oxides. , 2011, , 13-53.		1
82	Detection, Identification and Monitoring of Chemical Warfare Agents: a Comparison Between on-Field and in-Lab Approach. NATO Science for Peace and Security Series A: Chemistry and Biology, 2020, , 235-238.	0.5	1
83	Application of NMR relaxometry for real-time monitoring of the removal of metal ions from water by synthetic clays. Dalton Transactions, 2022, 51, 4502-4509.	3.3	1
84	NAO-CNR: The Italian voice at IUPAC. Chemistry International, 2021, 43, 10-15.	0.3	0
85	Organocatalysts for enantioselective synthesis of fine chemicals: definitions, trends and developments. ScienceOpen Research, 2015, .	0.6	0
86	Estimation of the effi ciency of applying nanocomposites as environmentally safe nanofertilizers to stimulate biometric indices of agricultural crops. Agricultural Science and Practice, 2018, 5, 64-76.	0.6	0