

Matteo Guidotti

List of Publications by Year in descending order

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86
papers

2,507
citations

186265

28
h-index

206112

48
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100
all docs

100
docs citations

100
times ranked

2754
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Alkene Epoxidation and Thioether Oxidation with Hydrogen Peroxide Catalyzed by Mesoporous Zirconium-Silicates. Catalysts, 2022, 12, 742.	3.5	7
3	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
4	Bifunctional Europium(III) and Niobium(V)-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
5	NAO-CNR: The Italian voice at IUPAC. Chemistry International, 2021, 43, 10-15.	0.3	0
6	The CBRN Threat. Perspective of an Interagency Response. Advanced Sciences and Technologies for Security Applications, 2021, , 429-448.	0.5	4
7	More Efficient Prussian Blue Nanoparticles for an Improved Caesium Decontamination from Aqueous Solutions and Biological Fluids. Molecules, 2020, 25, 3447.	3.8	8
8	Synthetic saponite clays as promising solids for lanthanide ion recovery. New Journal of Chemistry, 2020, 44, 10033-10041.	2.8	13
9	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
10	Tungstenocene-grafted silica catalysts for the selective epoxidation of alkenes. Applied Catalysis A: General, 2019, 581, 133-142.	4.3	25
11	Epoxidation of Karanja (Milletia pinnata) Oil Methyl Esters in the Presence of Hydrogen Peroxide over a Simple Niobium-Containing Catalyst. Catalysts, 2019, 9, 344.	3.5	14
12	Iron-montmorillonite clays as active sorbents for the decontamination of hazardous chemical warfare agents. Dalton Transactions, 2018, 47, 2939-2948.	3.3	16
13	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
14	Surface organometallic chemistry in heterogeneous catalysis. Chemical Society Reviews, 2018, 47, 8403-8437.	38.1	146
15	Estimation of the efficiency 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
16	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
17	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
18	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

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19	Fe-Doped TiO ₂ Supported on HY Zeolite for Solar Photocatalytic Treatment of Dye Pollutants. <i>Catalysts</i> , 2017, 7, 344.	3.5	31
20	Nanosized inorganic metal oxides as heterogeneous catalysts for the degradation of chemical warfare agents. <i>Catalysis Today</i> , 2016, 277, 192-199.	4.4	39
21	One-pot Selective Dihydroxylation of Limonene Combining Metal and Enzyme Catalysis. <i>ChemistrySelect</i> , 2016, 1, 1795-1798.	1.5	6
22	Chemical risk and chemical warfare agents: science and technology against humankind. <i>Toxicological and Environmental Chemistry</i> , 2016, 98, 1018-1025.	1.2	13
23	An efficient epoxidation of terminal aliphatic alkenes over heterogeneous catalysts: when solvent matters. <i>Catalysis Science and Technology</i> , 2016, 6, 3832-3839.	4.1	21
24	Multifunctional Catalysis Promoted by Solvent Effects: Ti-MCM41 for a One-Pot, Four-Step, Epoxidation-Rearrangement-Oxidation-Decarboxylation Reaction Sequence on Stilbenes and Styrenes. <i>ACS Catalysis</i> , 2015, 5, 3552-3561.	11.2	36
25	The stability of niobium-silica catalysts in repeated liquid-phase epoxidation tests: A comparative evaluation of in-framework and grafted mixed oxides. <i>Inorganica Chimica Acta</i> , 2015, 431, 190-196.	2.4	23
26	Organocatalysts for enantioselective synthesis of fine chemicals: definitions, trends and developments. <i>ScienceOpen Research</i> , 2015, .	0.6	0
27	Environmentally Benign Oxidation of Alkylphenols to p-Benzoquinones: A Comparative Study of Various Ti-Containing Catalysts. <i>Topics in Catalysis</i> , 2014, 57, 1377-1384.	2.8	11
28	Niobium(V) Saponite Clay for the Catalytic Oxidative Abatement of Chemical Warfare Agents. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 10095-10098.	13.8	83
29	Nano-structured Solids and Heterogeneous Catalysts for the Selective Decontamination of Chemical Warfare Agents. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2014, , 275-284.	0.5	3
30	Nanomaterials: biological effects and some aspects of applications in ecology and agriculture. , 2014, , .		5
31	Niobium-Containing Hydroxyapatites as Amphoteric Catalysts: Synthesis, Properties, and Activity. <i>ACS Catalysis</i> , 2014, 4, 469-479.	11.2	24
32	Niobium(V) Saponite Clay for the Catalytic Oxidative Abatement of Chemical Warfare Agents. <i>Angewandte Chemie</i> , 2014, 126, 10259-10262.	2.0	21
33	Grafted non-ordered niobium-silica materials: Versatile catalysts for the selective epoxidation of various unsaturated fine chemicals. <i>Catalysis Today</i> , 2014, 235, 49-57.	4.4	36
34	Steric environment around acetylcholine head groups of bolaamphiphilic nanovesicles influences the release rate of encapsulated compounds. <i>International Journal of Nanomedicine</i> , 2014, 9, 561.	6.7	7
35	Niobium-silica catalysts for the selective epoxidation of cyclic alkenes: the generation of the active site by grafting niobocene dichloride. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 13354.	2.8	59
36	Biocidal effects of silver and zinc oxide nanoparticles on the bioluminescent bacteria. <i>Proceedings of SPIE</i> , 2013, , .	0.8	3

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37	Niobium metallocenes deposited onto mesoporous silica via dry impregnation as catalysts for selective epoxidation of alkenes. <i>Journal of Catalysis</i> , 2013, 298, 77-83.	6.2	65
38	Cluster-derived Ir-Sn/SiO ₂ catalysts for the catalytic dehydrogenation of propane: a spectroscopic study. <i>Dalton Transactions</i> , 2013, 42, 12714.	3.3	5
39	Epoxidation with hydrogen peroxide of unsaturated fatty acid methyl esters over Nb(V)-silica catalysts. <i>European Journal of Lipid Science and Technology</i> , 2013, 115, 86-93.	1.5	43
40	Structured Inorganic Oxide-Based Materials for the Absorption and Destruction of CBRN Agents. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2013, , 43-53.	0.3	2
41	Rational design of single-site heterogeneous catalysts: towards high chemo-, regio- and stereoselectivity. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012, 468, 1904-1926.	2.1	40
42	Use of titanium-containing silica catalysts prepared by rapid and straightforward method in selective oxidations. <i>Catalysis Today</i> , 2012, 197, 170-177.	4.4	10
43	Bimetallic heterogeneous catalysts for hydrogen production. <i>Catalysis Today</i> , 2012, 197, 190-205.	4.4	173
44	Acid/Vanadium-Containing Saponite for the Conversion of Propene into Coke: Potential Flame-Retardant Filler for Nanocomposite Materials. <i>Chemistry - an Asian Journal</i> , 2012, 7, 2394-2402.	3.3	8
45	Ti-POSS covalently immobilized onto mesoporous silica: A model for active sites in heterogeneous catalytic epoxidation. <i>Inorganica Chimica Acta</i> , 2012, 380, 244-251.	2.4	21
46	Immersion Calorimetry as a Tool To Evaluate the Catalytic Performance of Titanosilicate Materials in the Epoxidation of Cyclohexene. <i>Langmuir</i> , 2011, 27, 3618-3625.	3.5	26
47	Epoxidation of methyl oleate with hydrogen peroxide. The use of Ti-containing silica solids as efficient heterogeneous catalysts. <i>Green Chemistry</i> , 2011, 13, 1806.	9.0	70
48	Organic-Inorganic Hybrid Saponites Obtained by Intercalation of Titanosilsesquioxane. <i>Chemistry - an Asian Journal</i> , 2011, 6, 914-921.	3.3	9
49	Heterogeneous Catalytic Epoxidation: High Limonene Oxide Yields by Surface Silylation of Ti-MCM-41. <i>Chemical Engineering and Technology</i> , 2011, 34, 1924-1927.	1.5	21
50	Molecular sieve catalysts as substitutes for metal chlorides in the chemical industry: Some selected examples. <i>Pure and Applied Chemistry</i> , 2011, 84, 509-527.	1.9	3
51	(A211) Nanosciences and CBRN Threats: Considerations about the Potential Risk of Illicit Use of Nanosystems. <i>Prehospital and Disaster Medicine</i> , 2011, 26, s58-s58.	1.3	1
52	(A204) Importance of Emergency Response Program Organizations in Coping with the Increasing Risk of CBRN Events. <i>Prehospital and Disaster Medicine</i> , 2011, 26, s56-s56.	1.3	1
53	DEACTIVATION OF MOLECULAR SIEVES IN THE SYNTHESIS OF ORGANIC CHEMICALS. <i>Catalytic Science Series</i> , 2011, , 303-334.	0.0	2
54	Design and Applications of Multifunctional Catalysts Based on Inorganic Oxides. , 2011, , 13-53.		1

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55	Synthesis and Catalytic Activity of Titanium Silsesquioxane Frameworks as Models of Titanium Active Surface Sites of Controlled Nuclearity. <i>Organometallics</i> , 2010, 29, 6687-6694.	2.3	20
56	Design and Use of Nanostructured Single-Site Heterogeneous Catalysts for the Selective Transformation of Fine Chemicals. <i>Molecules</i> , 2010, 15, 3829-3856.	3.8	60
57	Tailoring the Hydrophobic Character of Mesoporous Silica by Silylation for VOC Removal. <i>Separation Science and Technology</i> , 2010, 45, 768-775.	2.5	34
58	Highly Selective Oxidation of Alkylphenols to Benzoquinones with Hydrogen Peroxide over Silica-Supported Titanium Catalysts: Titanium Cluster Site versus Titanium Single Site. <i>Advanced Synthesis and Catalysis</i> , 2009, 351, 1877-1889.	4.3	51
59	How to reach 100% selectivity in H ₂ O ₂ -based oxidation of 2,3,6-trimethylphenol to trimethyl-p-benzoquinone over Ti,Si-catalysts. <i>Catalysis Today</i> , 2009, 141, 330-336.	4.4	44
60	An efficient ring opening reaction of methyl epoxystearate promoted by synthetic acid saponite clays. <i>Green Chemistry</i> , 2009, 11, 1173.	9.0	24
61	The use of H ₂ O ₂ over titanium-grafted mesoporous silica catalysts: a step further towards sustainable epoxidation. <i>Green Chemistry</i> , 2009, 11, 1421.	9.0	89
62	Applications in Synthesis of Commodities and Fine Chemicals. , 2009, , 275-347.		3
63	Titanium-Silica Catalysts for the Production of Fully Epoxidised Fatty Acid Methyl Esters. <i>Catalysis Letters</i> , 2008, 122, 53-56.	2.6	28
64	Titanosilsesquioxane Anchored on Mesoporous Silicas: A Novel Approach for the Preparation of Heterogeneous Catalysts for Selective Oxidations. <i>Chemistry - A European Journal</i> , 2008, 14, 8098-8101.	3.3	44
65	The effect of silylation on titanium-containing silica catalysts for the epoxidation of functionalised molecules. <i>Microporous and Mesoporous Materials</i> , 2008, 111, 39-47.	4.4	47
66	Acetylation of aromatics over acid zeolites: Seeking a viable alternative to Friedel-Crafts catalysts. <i>Pure and Applied Chemistry</i> , 2007, 79, 1833-1838.	1.9	21
67	Highly efficient production of 2,3,5-trimethyl-1,4-benzoquinone using aqueous H ₂ O ₂ and grafted Ti(IV)/SiO ₂ catalyst. <i>Green Chemistry</i> , 2007, 9, 731.	9.0	48
68	Ti(IV) Catalytic Centers Grafted on Different Siliceous Materials: Spectroscopic and Catalytic Study. <i>Journal of Physical Chemistry C</i> , 2007, 111, 5083-5089.	3.1	64
69	Problems and Pitfalls in the Applications of Zeolites and other Microporous and Mesoporous Solids to Catalytic Fine Chemical Synthesis. , 2006, , 39-67.		6
70	One-Pot Reactions on Bifunctional Catalysts. , 2006, , 157-169.		4
71	Aromatic Acetylation. , 2006, , 69-94.		7
72	Epoxidation of unsaturated FAMES obtained from vegetable source over Ti(IV)-grafted silica catalysts: A comparison between ordered and non-ordered mesoporous materials. <i>Journal of Molecular Catalysis A</i> , 2006, 250, 218-225.	4.8	78

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73	Catalytic dehydrogenation of propane over cluster-derived Ir-Sn/SiO ₂ catalysts. <i>Catalysis Letters</i> , 2006, 112, 89-95.	2.6	26
74	Acetylation of aromatic compounds over H-BEA zeolite: the influence of the substituents on the reactivity and on the catalyst stability. <i>Journal of Catalysis</i> , 2005, 230, 375-383.	6.2	58
75	CD ₃ CN and NH ₃ interaction with Ti(IV) catalytic centres grafted on mesoporous MCM-41. <i>Studies in Surface Science and Catalysis</i> , 2005, , 311-320.	1.5	5
76	Mono- and Bifunctional Heterogeneous Catalytic Transformation of Terpenes and Terpenoids. <i>Topics in Catalysis</i> , 2004, 27, 157-168.	2.8	92
77	Epoxidation on titanium-containing silicates: do structural features really affect the catalytic performance?. <i>Journal of Catalysis</i> , 2003, 214, 242-250.	6.2	105
78	Characterization and catalytic performances of alkali-metal promoted Rh/SiO ₂ catalysts for propene hydroformylation. <i>Journal of Molecular Catalysis A</i> , 2003, 204-205, 509-518.	4.8	16
79	Preparation and characterisation of mesoporous silica-alumina and silica-titania with a narrow pore size distribution. <i>Catalysis Today</i> , 2003, 77, 315-323.	4.4	48
80	Heterogeneous catalytic epoxidation of fatty acid methyl esters on titanium-grafted silicas. <i>Green Chemistry</i> , 2003, 5, 421.	9.0	82
81	Diastereoselective epoxidation of hydroxy-containing unsaturated terpenes on heterogeneous titanium-catalyst. <i>Journal of Molecular Catalysis A</i> , 2002, 182-183, 151-156.	4.8	27
82	A comparison between [Ti]-MCM-41 and amorphous mesoporous silica-titania as catalysts for the epoxidation of bulky unsaturated alcohols. <i>Microporous and Mesoporous Materials</i> , 2001, 44-45, 595-602.	4.4	22
83	Title is missing!. <i>Journal of Cluster Science</i> , 2001, 12, 123-137.	3.3	5
84	Catalytic epoxidation of unsaturated alcohols on Ti-MCM-41. <i>Catalysis Today</i> , 2000, 60, 219-225.	4.4	69
85	One-pot conversion of citronellal into isopulegol epoxide on mesoporous titanium silicate. <i>Chemical Communications</i> , 2000, , 1789-1790.	4.1	26
86	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. <i>Redia</i> , 0, , 201-205.	0.4	5