

Gianmario Martra

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255
papers

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50
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266
ext. papers

9,479
ext. citations

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L-index

#	Paper	IF	Citations
255	Lewis acid and base sites at the surface of microcrystalline TiO ₂ anatase: relationships between surface morphology and chemical behaviour. <i>Applied Catalysis A: General</i> , 2000 , 200, 275-285	5.1	329
254	Endocytosis, oxidative stress and IL-8 expression in human lung epithelial cells upon treatment with fine and ultrafine TiO ₂ : role of the specific surface area and of surface methylation of the particles. <i>Toxicology and Applied Pharmacology</i> , 2007 , 222, 141-51	4.6	276
253	Cu(II)-ZSM-5 zeolites prepared by reaction of H-ZSM-5 with gaseous CuCl: Spectroscopic characterization and reactivity towards carbon monoxide and nitric oxide. <i>Applied Catalysis B: Environmental</i> , 1994 , 3, 151-172	21.8	257
252	Photocatalytic oxidation of gaseous toluene on anatase TiO ₂ catalyst: mechanistic aspects and FT-IR investigation. <i>Applied Catalysis B: Environmental</i> , 1999 , 20, 15-27	21.8	238
251	Mechanism of photoinduced superhydrophilicity on the TiO ₂ photocatalyst surface. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 15422-8	3.4	229
250	Metal sols as a useful tool for heterogeneous gold catalyst preparation: reinvestigation of a liquid phase oxidation. <i>Catalysis Today</i> , 2000 , 61, 165-172	5.3	227
249	New gold catalysts for liquid phase oxidation 1999 , 32, 96-101		174
248	Photocatalytic degradation of nitrophenols in aqueous titanium dioxide dispersion. <i>Applied Catalysis</i> , 1991 , 69, 323-340		166
247	The role of H ₂ O in the photocatalytic oxidation of toluene in vapour phase on anatase TiO ₂ catalyst: A FTIR study. <i>Catalysis Today</i> , 1999 , 53, 695-702	5.3	155
246	Hydrophilic and hydrophobic sites on dehydrated crystalline and amorphous silicas. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1991 , 87, 497		151
245	Photocatalytic oxidation of toluene on irradiated TiO ₂ : comparison of degradation performance in humidified air, in water and in water containing a zwitterionic surfactant. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2003 , 160, 105-114	4.7	145
244	Surface Structure of TiO ₂ P25 Nanoparticles: Infrared Study of Hydroxy Groups on Coordinative Defect Sites. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 21531-21538	3.8	142
243	Nanoscale Copper Particles Derived from Solvated Cu Atoms in the Activation of Molecular Oxygen. <i>Chemistry of Materials</i> , 2002 , 14, 1183-1186	9.6	136
242	Preparation, Characterization, and Activity of Cu/TiO ₂ Catalysts. I. Influence of the Preparation Method on the Dispersion of Copper in Cu/TiO ₂ . <i>Journal of Catalysis</i> , 1997 , 165, 129-139	7.3	114
241	Investigations of the structure of H ₂ O clusters adsorbed on TiO ₂ surfaces by near-infrared absorption spectroscopy. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 7387-91	3.4	114
240	Surface characteristics of nanocrystalline apatites: effect of mg surface enrichment on morphology, surface hydration species, and cationic environments. <i>Langmuir</i> , 2009 , 25, 5647-54	4	106
239	Effect of fluorination on the surface properties of titania P25 powder: an FTIR study. <i>Langmuir</i> , 2010 , 26, 2521-7	4	103

238	Surface Structure, Hydration, and Cationic Sites of Nanohydroxyapatite: UHR-TEM, IR, and Microgravimetric Studies. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 4027-4035	3.8	99
237	Amino acid synergetic effect on structure, morphology and surface properties of biomimetic apatite nanocrystals. <i>Acta Biomaterialia</i> , 2009 , 5, 1241-52	10.8	98
236	Cu/SiO ₂ and Cu/SiO ₂ /TiO ₂ Catalysts. <i>Journal of Catalysis</i> , 1999 , 184, 316-326	7.3	93
235	Dependence of copper species on the nature of the support for dispersed CuO catalysts. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 7851-61	3.4	92
234	Characterisation of microporous and mesoporous materials by the adsorption of molecular probes: FTIR and UV-Vis studies. <i>Microporous and Mesoporous Materials</i> , 1999 , 30, 43-56	5.3	89
233	Colour centres at the surface of alkali-earth oxides. A new hypothesis on the location of surface electron traps. <i>Surface Science</i> , 1999 , 421, 246-262	1.8	88
232	Magnesium- and strontium-co-substituted hydroxyapatite: the effects of doped-ions on the structure and chemico-physical properties. <i>Journal of Materials Science: Materials in Medicine</i> , 2012 , 23, 2867-79	4.5	85
231	Highly bright and photostable cyanine dye-doped silica nanoparticles for optical imaging: Photophysical characterization and cell tests. <i>Dyes and Pigments</i> , 2010 , 84, 121-127	4.6	79
230	ALPO-34 and SAPO-34 synthesized by using morpholine as templating agent. FTIR and FT-Raman studies of the host-guest and guest-guest interactions within the zeolitic framework. <i>Microporous and Mesoporous Materials</i> , 1999 , 30, 145-153	5.3	78
229	Catalytic activity of aminopropyl xerogels in the selective synthesis of (E)-nitrostyrenes from nitroalkanes and aromatic aldehydes. <i>Journal of Catalysis</i> , 2004 , 222, 410-418	7.3	76
228	Magnesia-Supported Nickel Catalysts. <i>Journal of Catalysis</i> , 1993 , 141, 34-47	7.3	75
227	Structure and reactivity in the selective oxidation of methane to formaldehyde of low-loaded FeO _x /SiO ₂ catalysts. <i>Journal of Catalysis</i> , 2005 , 231, 365-380	7.3	74
226	A surface science approach to TiO ₂ P25 photocatalysis: An in situ FTIR study of phenol photodegradation at controlled water coverages from sub-monolayer to multilayer. <i>Applied Catalysis B: Environmental</i> , 2016 , 196, 135-141	21.8	71
225	Structure of the surface sites of Al ₂ O ₃ as determined by high-resolution transmission electron microscopy, computer modelling and infrared spectroscopy of adsorbed CO. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993 , 89, 3483-3489		70
224	Surface morphology and reactivity towards CO of MgO particles: FTIR and HRTEM studies. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1993 , 49, 1289-1298		70
223	Alkali and alkaline-earth exchanged faujasites: strength of Lewis base and acid centres and cation site occupancy in Na- and BaY and Na- and BaX zeolites. <i>Catalysis Today</i> , 2002 , 73, 83-93	5.3	69
222	Beyond Shape Engineering of TiO ₂ Nanoparticles: Post-Synthesis Treatment Dependence of Surface Hydration, Hydroxylation, Lewis Acidity and Photocatalytic Activity of TiO ₂ Anatase Nanoparticles with Dominant {001} or {101} Facets. <i>ACS Applied Nano Materials</i> , 2018 , 1, 5355-5365	5.6	68
221	Factors controlling the selectivity of V ₂ O ₅ supported catalysts in the oxidative dehydrogenation of propane. <i>Catalysis Today</i> , 2000 , 63, 197-207	5.3	67

220	Relationship between the state of the surface of four commercial quartz flours and their biological activity in vitro and in vivo. <i>International Journal of Hygiene and Environmental Health</i> , 2004 , 207, 89-104	6.9	65
219	Nanocrystalline carbonate-apatites: role of Ca/P ratio on the upload and release of anticancer platinum bisphosphonates. <i>Nanoscale</i> , 2012 , 4, 206-17	7.7	62
218	Surface Hydration and Cationic Sites of Nanohydroxyapatites with Amorphous or Crystalline Surfaces: A Comparative Study. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 16640-16648	3.8	62
217	Shape-controlled TiO ₂ nanoparticles and TiO ₂ P25 interacting with CO and H ₂ O ₂ molecular probes: a synergic approach for surface structure recognition and physico-chemical understanding. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 307-15	3.6	61
216	States of H ₂ O adsorbed on oxides: An investigation by near and mid infrared spectroscopy. <i>Applied Catalysis A: General</i> , 2006 , 307, 13-20	5.1	60
215	Verification of the Photoadsorption of H ₂ O Molecules on TiO ₂ Semiconductor Surfaces by Vibrational Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 9811-9817	3.8	59
214	Characterization of the local structures of Ti-MCM-41 and their photocatalytic reactivity for the decomposition of NO into N ₂ and O ₂ . <i>Journal of Physical Chemistry B</i> , 2006 , 110, 1680-5	3.4	59
213	Photocatalytic oxidation of phenol on TiO ₂ powders. A Fourier transform infrared study. <i>Applied Catalysis B: Environmental</i> , 1994 , 3, 117-132	21.8	59
212	NH ₃ adsorption on MCM-41 and Ti-grafted MCM-41. FTIR, DR UV-Vis, IR and photoluminescence studies. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 6109-6115	3.6	57
211	Hydrosilylation of aromatic nitriles promoted by solvated rhodium atom-derived catalysts. <i>Journal of Molecular Catalysis A</i> , 1999 , 150, 275-285		55
210	Dynamic and static interactions in CO layers adsorbed on MgO smoke (100) facelets: a FTIR and HRTEM study. <i>Surface Science</i> , 1992 , 269-270, 135-140	1.8	55
209	Possible role of ascorbic acid in the oxidative damage induced by inhaled crystalline silica particles. <i>Chemical Research in Toxicology</i> , 2000 , 13, 971-5	4	52
208	Oxidative dehydrogenation of C ₃ -C ₄ paraffins in the presence of CO ₂ over CrO _x /SiO ₂ catalysts. <i>Applied Catalysis A: General</i> , 2008 , 347, 126-132	5.1	51
207	Nitric Oxide Reduction by CO on Cu/TiO ₂ Catalysts. <i>Journal of Catalysis</i> , 1994 , 146, 449-459	7.3	51
206	The formation and self-assembly of long prebiotic oligomers produced by the condensation of unactivated amino acids on oxide surfaces. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 4671-4	16.4	50
205	The growth mechanism of apatite nanocrystals assisted by citrate: relevance to bone biomineralization. <i>CrystEngComm</i> , 2015 , 17, 507-511	3.3	48
204	FTIR and TPD Study of the Room Temperature Interaction of a NO _x Oxygen Mixture and of NO ₂ with Titanium Dioxide. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 10345-10352	3.8	48
203	The Case of Formic Acid on Anatase TiO (101): Where is the Acid Proton?. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 12431-12434	16.4	46

202	Hydrosilylation of 1-hexyne promoted by acetone solvated gold atoms derived catalysts. <i>Journal of Organometallic Chemistry</i> , 2005 , 690, 1063-1066	2.3	46
201	Electron paramagnetic resonance investigation of the interaction of CO with the surface of electron-rich magnesium oxide: evidence for the CO ⁻ radical anion. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993 , 89, 3715		46
200	Formic Acid Photoreforming for Hydrogen Production on Shape-Controlled Anatase TiO ₂ Nanoparticles: Assessment of the Role of Fluorides, {101}/{001} Surfaces Ratio, and Platinization. <i>ACS Catalysis</i> , 2019 , 9, 6692-6697	13.1	42
199	Crystallinity in apatites: how can a truly disordered fraction be distinguished from nanosize crystalline domains?. <i>Journal of Materials Science: Materials in Medicine</i> , 2006 , 17, 1079-87	4.5	42
198	Coordination chemistry of Ca sites at the surface of nanosized hydroxyapatite: interaction with H ₂ O and CO. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012 , 370, 1313-36	3	41
197	Chemical treatment on alumina/zirconia composites inducing apatite formation with maintained mechanical properties. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 2113-2120	6	40
196	Model system to study the influence of aggregation on the hemolytic potential of silica nanoparticles. <i>Chemical Research in Toxicology</i> , 2011 , 24, 1869-75	4	40
195	Evaluation of the Adsorption States of H ₂ O on Oxide Surfaces by Vibrational Absorption: Near- and Mid-Infrared Spectroscopy. <i>Journal of Near Infrared Spectroscopy</i> , 2009 , 17, 373-384	1.5	40
194	Punctual investigation of surface sites of HA and magnesium-HA. <i>Journal of the European Ceramic Society</i> , 2006 , 26, 987-991	6	40
193	Hair analysis of drugs involved in drug-facilitated sexual assault and detection of zolpidem in a suspected case. <i>International Journal of Legal Medicine</i> , 2012 , 126, 451-9	3.1	39
192	Synergistic role of B and F dopants in promoting the photocatalytic activity of rutile TiO ₂ . <i>ChemPhysChem</i> , 2011 , 12, 2221-4	3.2	39
191	Surface structures, reduction pattern and oxygen chemisorption of V ₂ O ₅ /SiO ₂ catalysts. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997 , 93, 3849-3854		39
190	Solvated gold atoms in the preparation of efficient supported catalysts: Correlation between morphological features and catalytic activity in the hydrosilylation of 1-hexyne. <i>Journal of Catalysis</i> , 2009 , 266, 250-257	7.3	38
189	FTIR and TPD Analysis of Surface Species on a TiO ₂ Photocatalyst Exposed to NO, CO, and NO ₂ /O ₂ Mixtures: Effect of UV-Vis Light Irradiation. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 20381-20387	3.8	38
188	How Does Silica Catalyze the Amide Bond Formation under Dry Conditions? Role of Specific Surface Silanol Pairs. <i>ACS Catalysis</i> , 2018 , 8, 4558-4568	13.1	36
187	The puzzling issue of silica toxicity: are silanols bridging the gaps between surface states and pathogenicity?. <i>Particle and Fibre Toxicology</i> , 2019 , 16, 32	8.4	36
186	Understanding the Vibrational and Electronic Features of Ti(IV) Sites in Mesoporous Silicas by Integrated Ab Initio and Spectroscopic Investigations. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 4946-4955	3.8	36
185	A biomimetic approach to the chemical inactivation of chrysotile fibres by lichen metabolites. <i>Chemistry - A European Journal</i> , 2007 , 13, 4081-93	4.8	36

184	FTIR spectroscopic investigation of the active sites on different types of silica catalysts for methane partial oxidation to formaldehyde. <i>Catalysis Letters</i> , 1996 , 37, 235-239	2.8	36
183	Rapid and sensitive detection of pyrimethanil residues on pome fruits by Surface Enhanced Raman Scattering. <i>Food Chemistry</i> , 2018 , 244, 16-24	8.5	35
182	Close-Packed Dye Molecules in Zeolite Channels Self-Assemble into Supramolecular Nanoladders. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 15732-15743	3.8	35
181	Bimetallic Gold/Palladium vapour derived catalysts: The role of structural features on their catalytic activity. <i>Journal of Catalysis</i> , 2012 , 286, 224-236	7.3	35
180	Chemoselective hydrogenation of halonitroaromatics over Fe ₂ O ₃ -supported platinum nanoparticles: The role of the support on their catalytic activity and selectivity. <i>Journal of Molecular Catalysis A</i> , 2013 , 366, 288-293		35
179	Toward a Surface Science Model for Biology: Glycine Adsorption on Nanohydroxyapatite with Well-Defined Surfaces. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 1390-1394	6.4	35
178	High aspect ratio materials: role of surface chemistry vs. length in the historical "long and short amosite asbestos fibers". <i>Inhalation Toxicology</i> , 2010 , 22, 984-98	2.7	35
177	Hybrid Cyanine/Silica Nanoparticles: Homogeneous Photoemission Behavior of Entrapped Fluorophores and Consequent High Brightness Enhancement. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 21048-21053	3.8	35
176	Single and Multiple Lewis Sites of MgO: A Combined IR and ab Initio Study with CD ₃ CN as a Molecular Probe. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 5011-5016		35
175	Photocatalytic Activity of Nanocomposite Catalyst Films Based on Nanocrystalline Metal/Semiconductors. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 12033-12040	3.8	34
174	Interaction of N ₂ O with Ag ⁺ ion-exchanged zeolites: an FT-IR spectroscopy and quantum chemical ab initio and DFT studies. <i>Journal of Molecular Catalysis A</i> , 2003 , 201, 237-246		34
173	Ab Initio Study of Defect Sites at the Inner Surfaces of Mesoporous Silicas. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 10767-10772	3.4	34
172	Photocatalytic oxidation of acetonitrile in gas/solid and liquid/solid regimes. <i>Journal of Catalysis</i> , 2005 , 235, 209-220	7.3	34
171	Fluorescent silica nanoparticles improve optical imaging of stem cells allowing direct discrimination between live and early-stage apoptotic cells. <i>Small</i> , 2012 , 8, 3192-200	11	33
170	Molecular Engineering of Hybrid Dye/Silica Fluorescent Nanoparticles: Influence of the Dye Structure on the Distribution of Fluorophores and Consequent Photoemission Brightness. <i>Chemistry of Materials</i> , 2012 , 24, 2792-2801	9.6	33
169	A Spectroscopic Study of Group IV Transition Metal Incorporated Direct Templated Mesoporous Catalysts Part 1: A Comparison between Materials Synthesized Using Hydrophobic and Hydrophilic Ti Precursors. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 7102-7109	3.4	33
168	MVS-derived palladium nanoparticles deposited on polydimethylphosphazene as recyclable catalysts for Heck-type reactions: Preparation, structural study, and catalytic activity. <i>Journal of Catalysis</i> , 2007 , 246, 351-361	7.3	32
167	Acidic and basic sites in NaX and NaY faujasites investigated by NH ₃ , CO ₂ and CO molecular probes. <i>Research on Chemical Intermediates</i> , 1999 , 25, 77-93	2.8	32

166	Surface iron inhibits quartz-induced cytotoxic and inflammatory responses in alveolar macrophages. <i>Chemical Research in Toxicology</i> , 2011 , 24, 99-110	4	29
165	FT-IR Evidence of Two Distinct Protonic Sites in BEA Zeolite: Consequences on Cationic Exchange and on Acido-Basic Properties in the Presence of Cesium. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 10520-10530	3.8	30
164	IR and theoretical studies of monocarbonyl Ni complexes formed by adsorption of CO at low pressure on silica-supported Ni(II) ions. <i>Journal of the American Chemical Society</i> , 2002 , 124, 7210-7	16.4	29
163	Surface morphology and reactivity of microcrystalline MgO: Single and multiple acid-base pairs in low coordination revealed by FTIR spectroscopy of adsorbed CO, CD ₃ CN and D ₂ . <i>Catalysis Today</i> , 2001 , 70, 121-130	5.3	29
162	Interaction of SiO ₂ nanoparticles with neuronal cells: Ionic mechanisms involved in the perturbation of calcium homeostasis. <i>International Journal of Biochemistry and Cell Biology</i> , 2015 , 66, 101-11	5.6	28
161	Towards efficient catalysts for the oxidative dehydrogenation of propane in the presence of CO ₂ : Cr/SiO ₂ systems prepared by direct hydrothermal synthesis. <i>Catalysis Science and Technology</i> , 2016 , 6, 840-850	5.5	27
160	Conductive ZSM-5-Based Adsorbent for CO ₂ Capture: Active Phase vs Monolith. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 8485-8498	3.9	27
159	Direct Synthesis of Amides from Carboxylic Acids and Amines by Using Heterogeneous Catalysts: Evidence of Surface Carboxylates as Activated Electrophilic Species. <i>ChemCatChem</i> , 2013 , 5, 2832-2834	5.2	27
158	Ascorbic acid modifies the surface of asbestos: possible implications in the molecular mechanisms of toxicity. <i>Chemical Research in Toxicology</i> , 2003 , 16, 328-35	4	27
157	Surface features of TiO ₂ nanoparticles: combination modes of adsorbed CO probe the stepping of (101) Facets. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 13391-9	3.6	26
156	Affinity of hydroxyapatite (001) and (010) surfaces to formic and alendronic acids: a quantum-mechanical and infrared study. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 1099-111	3.6	26
155	Novel dimeric species produced by CO interaction with surface F-type centres on Mg-doped MgO: an IR study. <i>Materials Chemistry and Physics</i> , 1991 , 29, 437-445	4.4	26
154	On the Simple Complexity of Carbon Monoxide on Oxide Surfaces: Facet-Specific Donation and Backdonation Effects Revealed on TiO ₂ Anatase Nanoparticles. <i>ChemPhysChem</i> , 2016 , 17, 1956-60	3.2	25
153	Improvement of SO _x -Resistance of Silver Lean-DeNO _x Catalysts by Supporting on CeO ₂ -Containing Zirconia. <i>Journal of Catalysis</i> , 2002 , 209, 271-274	7.3	25
152	Local Structures of Active Sites on Ti-MCM-41 and Their Photocatalytic Reactivity for the Decomposition of NO. <i>Catalysis Letters</i> , 2003 , 90, 161-163	2.8	25
151	Characterisation by vibrational and electronic spectroscopies. <i>Catalysis Today</i> , 2000 , 56, 361-370	5.3	25
150	Cu/SiO ₂ and Cu/SiO ₂ /TiO ₂ Catalysts. <i>Journal of Catalysis</i> , 1999 , 184, 327-334	7.3	25
149	Nearly free surface silanols are the critical molecular moieties that initiate the toxicity of silica particles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 27836-27846	11.5	25

148	Effect of Silica Surface Properties on the Formation of Multilayer or Submonolayer Protein Hard Corona: Albumin Adsorption on Pyrolytic and Colloidal SiO ₂ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 26493-26505	3.8	24
147	Photocatalytic Degradation of Organic Compounds on TiO ₂ Powders FT-IR Investigation of Surface Reactivity and Mechanistic Aspects <i>Journal of the Japan Petroleum Institute</i> , 2004 , 47, 359-376	1	24
146	Adsorption and photocatalytic degradation of acetonitrile: FT-IR investigation. <i>Journal of Molecular Catalysis A</i> , 2003 , 204-205, 693-701		24
145	Synthesis, Electrochemical and Electrogenerated Chemiluminescence Studies of Ruthenium(II) Bis(2,2'-bipyridyl){2-(4-methylpyridin-2-yl)benzo[d]-X-azole} Complexes. <i>European Journal of Inorganic Chemistry</i> , 2006 , 2006, 2839-2849	2.3	23
144	Potential toxicity of nonregulated asbestiform minerals: balangeroite from the western Alps. Part 2: Oxidant activity of the fibers. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2005 , 68, 21-39	3.2	23
143	Enzyme activation by alternating magnetic field: Importance of the bioconjugation methodology. <i>Journal of Colloid and Interface Science</i> , 2019 , 537, 615-628	9.3	23
142	Species-specific detection of processed animal proteins in feed by Raman spectroscopy. <i>Food Chemistry</i> , 2017 , 229, 268-275	8.5	21
141	Possible Chemical Source of Discrepancy between in Vitro and in Vivo Tests in Nanotoxicology Caused by Strong Adsorption of Buffer Components. <i>Chemical Research in Toxicology</i> , 2015 , 28, 87-91	4	21
140	Identification of cationic and oxidic caesium species in basic Cs-overloaded BEA zeolites. <i>Microporous and Mesoporous Materials</i> , 2006 , 90, 175-187	5.3	21
139	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, 337-48	4	20
138	A Step toward Control of the Surface Structure of Biomimetic Hydroxyapatite Nanoparticles: Effect of Carboxylates on the {010} P-Rich/Ca-Rich Facets Ratio. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 5928-5937	2.8	20
137	Palladium nanoparticles supported on Smopex metal scavengers as catalyst for carbonylative Sonogashira reactions: Synthesis of alkynyl ketones. <i>Applied Catalysis A: General</i> , 2014 , 480, 1-9	5.1	20
136	Alumina-zirconia composites functionalized with laminin-1 and laminin-5 for dentistry: effect of protein adsorption on cellular response. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 114, 284-93	6	20
135	Oxidation of alkenes to 1,2-diols: FT-IR and UV studies of silica-supported sulfonic acid catalysts and their interaction with H ₂ O and H ₂ O ₂ . <i>Journal of Catalysis</i> , 2012 , 294, 19-28	7.3	20
134	Spectroscopic tools for probing the isolated titanium centres in MCM41 mesoporous catalysts. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1997 , 19, 1707-1718		20
133	New formulation of functionalized bioactive glasses to be used as carriers for the development of pH-stimuli responsive biomaterials for bone diseases. <i>Langmuir</i> , 2014 , 30, 4703-15	4	19
132	Towards the controlled release of metal nanoparticles from biomaterials: Physico-chemical, morphological and bioactivity features of Cu-containing sol-gel glasses. <i>Applied Surface Science</i> , 2013 , 283, 240-248	6.7	19
131	CrOx/SiO ₂ catalysts prepared by metal vapour synthesis: Physical-chemical characterisation and functional testing in oxidative dehydrogenation of propane. <i>Chemical Engineering Journal</i> , 2011 , 166, 1132-1138	14.7	19

130	Nanoscale Cu supported catalysts in the partial oxidation of cyclohexane with molecular oxygen. <i>Catalysis Letters</i> , 2007 , 116, 57-62	2.8	19
129	FTIR study of adsorption and photodegradation of L-Alanine on TiO ₂ powder. <i>Research on Chemical Intermediates</i> , 2002 , 28, 359-371	2.8	19
128	Reactive Sites at the Surface of Crocidolite Asbestos \square <i>Langmuir</i> , 1999 , 15, 5742-5752	4	19
127	Insights into Cr/SiO ₂ catalysts during dehydrogenation of propane: an operando XAS investigation. <i>Catalysis Science and Technology</i> , 2017 , 7, 1690-1700	5.5	18
126	Structure and Host-Guest Interactions of Perylene-Diimide Dyes in Zeolite L Nanochannels. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 3401-3418	3.8	18
125	Solid-state and unilateral NMR study of deterioration of a Dead Sea Scroll fragment. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 402, 1551-7	4.4	18
124	Supported rhodium nanoparticles in catalysis: the role of stabilizers on catalytic activity and structural features. <i>Journal of Organometallic Chemistry</i> , 2003 , 681, 37-50	2.3	18
123	Comparison of Different Photocatalytic Systems for Acetonitrile Degradation in Gas-Solid Regime. <i>Topics in Catalysis</i> , 2005 , 35, 237-244	2.3	18
122	Factors Ruling the Uptake of Silica Nanoparticles by Mesenchymal Stem Cells: Agglomeration Versus Dispersions, Absence Versus Presence of Serum Proteins. <i>Small</i> , 2015 , 11, 2919-28	11	17
121	Adsorption of CH ₃ COOH on TiO ₂ : IR and theoretical investigations. <i>Research on Chemical Intermediates</i> , 2007 , 33, 269-284	2.8	17
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