Bice Fubini

List of Publications by Citations

156 papers	7,629 citations	47 h-index	80 g-index
157 ext. papers	8,204 ext. citations	5.2 avg, IF	5.6 L-index

#	Paper	IF	Citations
156	Reactive oxygen species (ROS) and reactive nitrogen species (RNS) generation by silica in inflammation and fibrosis. *Free Radical Biology and Medicine*, **2003**, 34, 1507-16	7.8	679
155	Generation of superoxide ions at oxide surfaces. *Topics in Catalysis*, **1999**, 8, 189-198	2.3	278
154	Endocytosis, oxidative stress and IL-8 expression in human lung epithelial cells upon treatment with fine and ultrafine TiO2: role of the specific surface area and of surface methylation of the particles. *Toxicology and Applied Pharmacology*, **2007**, 222, 141-51	4.6	276
153	Reactivity of carbon nanotubes: free radical generation or scavenging activity?. *Free Radical Biology and Medicine*, **2006**, 40, 1227-33	7.8	248
152	Structural defects play a major role in the acute lung toxicity of multiwall carbon nanotubes: toxicological aspects. *Chemical Research in Toxicology*, **2008**, 21, 1698-705	4	229
151	Physico-chemical features of engineered nanoparticles relevant to their toxicity. *Nanotoxicology*, **2010**, 4, 347-63	5.3	219
150	Structural defects play a major role in the acute lung toxicity of multiwall carbon nanotubes: physicochemical aspects. *Chemical Research in Toxicology*, **2008**, 21, 1690-7	4	165
149	Hydrophilic and hydrophobic sites on dehydrated crystalline and amorphous silicas. *Journal of the Chemical Society, Faraday Transactions*, **1991**, 87, 497		151
148	Free radical generation at the solid/liquid interface in iron containing minerals. *Free Radical Research*, **1995**, 23, 593-614	4	149
147	Non-UV-induced radical reactions at the surface of TiO2 nanoparticles that may trigger toxic responses. *Chemistry - A European Journal*, **2009**, 15, 4614-21	4.8	143
146	Multiple aspects of the interaction of biomacromolecules with inorganic surfaces. *Advanced Drug Delivery Reviews*, **2011**, 63, 1186-209	18.5	129
145	Physicochemical mechanism of the interaction between cobalt metal and carbide particles to generate toxic activated oxygen species. *Chemical Research in Toxicology*, **1995**, 8, 600-6	4	115
144	The surface area rather than the surface coating determines the acute inflammatory response after instillation of fine and ultrafine TiO2 in the rat. *International Journal of Hygiene and Environmental Health*, **2002**, 205, 239-44	6.9	113
143	Hydrophobic and Hydrophilic Behavior of Micelle-Templated Mesoporous Silica. *Langmuir*, **1997**, 13, 2773-2778	4	105
142	An integrated approach to the study of the interaction between proteins and nanoparticles. *Langmuir*, **2010**, 26, 8336-46	4	100
141	Kinetics of Formation of Micelle-Templated Silica Mesophases Monitored by Electron Paramagnetic Resonance. *Journal of Colloid and Interface Science*, **1998**, 201, 105-117	9.3	100
140	Thickness of multiwalled carbon nanotubes affects their lung toxicity. *Chemical Research in Toxicology*, **2012**, 25, 74-82	4	93

139	Preferential grafting of alkoxysilane coupling agents on the hydrophobic portion of the surface of micelle-templated silica. *New Journal of Chemistry*, **2000**, 24, 807-813	3.6	90
138	Structural and induced heterogeneity at the surface of some silica polymorphs from the enthalpy of adsorption of various molecules. *Langmuir*, **1993**, 9, 2712-2720	4	90
137	Sintered indium-tin-oxide (ITO) particles: a new pneumotoxic entity. *Toxicological Sciences*, **2009**, 108, 472-81	4.4	87
136	Influence of particle surface area on the toxicity of insoluble manganese dioxide dusts. *Archives of Toxicology*, **1997**, 71, 725-9	5.8	85
135	Role of iron in the reactivity of mineral fibers. *Toxicology Letters*, **1995**, 82-83, 951-60	4.4	83
134	Testing of fibrous particles: short-term assays and strategies. *Inhalation Toxicology*, **2005**, 17, 497-537	2.7	82
133	Relationship between surface properties and cellular responses to crystalline silica: studies with heat-treated cristobalite. *Chemical Research in Toxicology*, **1999**, 12, 737-45	4	81
132	Surface reactivity of volcanic ash from the eruption of Soufrière Hills volcano, Montserrat, West Indies with implications for health hazards. *Environmental Research*, **2003**, 93, 202-15	7.9	78
131	Interaction of spherical silica nanoparticles with neuronal cells: size-dependent toxicity and perturbation of calcium homeostasis. *Small*, **2011**, 7, 766-74	11	77
130	Potential toxicity of nonregulated asbestiform minerals: balangeroite from the western Alps. Part 1: Identification and characterization. *Journal of Toxicology and Environmental Health - Part A: Current Issues*, **2005**, 68, 1-19	3.2	75
129	Iron-loaded synthetic chrysotile: a new model solid for studying the role of iron in asbestos toxicity. *Chemical Research in Toxicology*, **2007**, 20, 380-7	4	72
128	Surface Heterogeneity on Hydrophilic and Hydrophobic Silicas: Water and Alcohols as Probes for H-Bonding and Dispersion Forces. *Langmuir*, **1997**, 13, 895-902	4	70
127	Does vitreous silica contradict the toxicity of the crystalline silica paradigm?. *Chemical Research in Toxicology*, **2010**, 23, 620-9	4	67
126	Evaluating the mechanistic evidence and key data gaps in assessing the potential carcinogenicity of carbon nanotubes and nanofibers in humans. *Critical Reviews in Toxicology*, **2017**, 47, 1-58	5.7	65
125	Effect of chemical composition and state of the surface on the toxic response to high aspect ratio nanomaterials. *Nanomedicine*, **2011**, 6, 899-920	5.6	65
124	Role of particle coating in controlling skin damage photoinduced by titania nanoparticles. *Free Radical Research*, **2009**, 43, 312-22	4	65
123	Relationship between the state of the surface of four commercial quartz flours and their biological activity in vitro and in vivo. *International Journal of Hygiene and Environmental Health*, **2004**, 207, 89-104	6.9	65
122	Development and suppression of surface acidity on monoclinic zirconia: a spectroscopic and calorimetric investigation. *Langmuir*, **1990**, 6, 695-701	4	64

121	In search of the chemical basis of the hemolytic potential of silicas. *Chemical Research in Toxicology*, **2013**, 26, 1188-98	4	61
120	The iron-related molecular toxicity mechanism of synthetic asbestos nanofibres: a model study for high-aspect-ratio nanoparticles. *Chemistry - A European Journal*, **2011**, 17, 350-8	4.8	59
119	Pure-silica zeolites (Porosils) as model solids for the evaluation of the physicochemical features determining silica toxicity to macrophages. *Chemical Research in Toxicology*, **2000**, 13, 489-500	4	54
118	Crocidolite asbestos inhibits pentose phosphate oxidative pathway and glucose 6-phosphate dehydrogenase activity in human lung epithelial cells. *Free Radical Biology and Medicine*, **2002**, 32, 938-49	7.8	52
117	Possible role of ascorbic acid in the oxidative damage induced by inhaled crystalline silica particles. *Chemical Research in Toxicology*, **2000**, 13, 971-5	4	52
116	Temkin-type model for the description of induced heterogeneity: CO adsorption on Group 4 transition metal dioxides. *Langmuir*, **1993**, 9, 1521-1528	4	52
115	Variation of biological responses to different respirable quartz flours determined by a vector model. *International Journal of Hygiene and Environmental Health*, **2004**, 207, 203-16	6.9	51
114	Revisiting the paradigm of silica pathogenicity with synthetic quartz crystals: the role of crystallinity and surface disorder. *Particle and Fibre Toxicology*, **2016**, 13, 32	8.4	49
113	Why does the hemolytic activity of silica predict its pro-inflammatory activity?. *Particle and Fibre Toxicology*, **2014**, 11, 76	8.4	49
112	Adsorption calorimetry in surface chemistry. *Thermochimica Acta*, **1988**, 135, 19-29	2.9	49
111	Evidence of stable hydroxyl radicals and other oxygen radical species generated by interaction of hydrogen peroxide with magnesium oxide. *The Journal of Physical Chemistry*, **1993**, 97, 5735-5740		48
110	Effect of form of the surface reactivity of differently prepared zinc oxides. *Journal of the Chemical Society Faraday Transactions I*, **1989**, 85, 855		47
109	Toxicity of lunar dust. *Planetary and Space Science*, **2012**, 74, 57-71	2	44
108	Physicochemical determinants in the cellular responses to nanostructured amorphous silicas. *Toxicological Sciences*, **2012**, 128, 158-70	4.4	44
107	Different cellular responses evoked by natural and stoichiometric synthetic chrysotile asbestos. *Toxicology and Applied Pharmacology*, **2005**, 206, 356-64	4.6	43
106	Ammonia and water as probes for the surface reactivity of covalent solids: cristobalite and silicon carbide. *Journal of the Chemical Society, Faraday Transactions*, **1992**, 88, 277		43
105	Localization of CdSe/ZnS quantum dots in the lysosomal acidic compartment of cultured neurons and its impact on viability: potential role of ion release. *Toxicology in Vitro*, **2013**, 27, 752-9	3.6	42
104	Induced heterogeneity at the surface of group 4 dioxides as revealed by CO adsorption at room temperature. *Journal of the Chemical Society, Faraday Transactions*, **1992**, 88, 391		41

103	Thermodynamic and spectroscopic characterization of heterogeneity among adsorption sites: carbon monoxide on anatase at ambient temperature. *Langmuir*, **1989**, 5, 892-899	4	41
102	Second Italian consensus conference on malignant pleural mesothelioma: state of the art and recommendations. *Cancer Treatment Reviews*, **2013**, 39, 328-39	14.4	40
101	Model system to study the influence of aggregation on the hemolytic potential of silica nanoparticles. *Chemical Research in Toxicology*, **2011**, 24, 1869-75	4	40
100	In vitro genotoxicity assessment of commercial quartz flours in comparison to standard DQ12 quartz. *International Journal of Hygiene and Environmental Health*, **2004**, 207, 105-13	6.9	40
99	Chrysotile asbestos is progressively converted into a non-fibrous amorphous material by the chelating action of lichen metabolites. *Journal of Environmental Monitoring*, **2005**, 7, 764-6		39
98	Thermodynamic and vibrational characterization of CO adsorption on variously pretreated anatase. *Journal of the Chemical Society Faraday Transactions I*, **1989**, 85, 1383		39
97	Surface rehydration of variously dehydrated eta-alumina. *Journal of Catalysis*, **1974**, 35, 1-10	7.3	39
96	Decreasing the oxidative potential of TiO(2) nanoparticles through modification of the surface with carbon: a new strategy for the production of safe UV filters. *Chemical Communications*, **2010**, 46, 8478-80	5.8	38
95	Surface Reactivity in the Pathogenic Response to Particulates. *Environmental Health Perspectives*, **1997**, 105, 1013	8.4	38
94	Soil fungi reduce the iron content and the DNA damaging effects of asbestos fibers. *Environmental Science & Technology*, **2006**, 40, 5793-8	10.3	38
93	Soil fungal hyphae bind and attack asbestos fibers. *Angewandte Chemie - International Edition*, **2003**, 42, 219-22	16.4	38
92	Unveiling the Variability of "Quartz Hazard" in Light of Recent Toxicological Findings. *Chemical Research in Toxicology*, **2017**, 30, 469-485	4	37
91	The puzzling issue of silica toxicity: are silanols bridging the gaps between surface states and pathogenicity?. *Particle and Fibre Toxicology*, **2019**, 16, 32	8.4	36
90	A biomimetic approach to the chemical inactivation of chrysotile fibres by lichen metabolites. *Chemistry - A European Journal*, **2007**, 13, 4081-93	4.8	36
89	Hematite nanoparticles larger than 90 nm show no sign of toxicity in terms of lactate dehydrogenase release, nitric oxide generation, apoptosis, and comet assay in murine alveolar macrophages and human lung epithelial cells. *Chemical Research in Toxicology*, **2012**, 25, 850-61	4	35
88	High aspect ratio materials: role of surface chemistry vs. length in the historical "long and short amosite asbestos fibers". *Inhalation Toxicology*, **2010**, 22, 984-98	2.7	35
87	The oxidation of glutathione by cobalt/tungsten carbide contributes to hard metal-induced oxidative stress. *Free Radical Research*, **2008**, 42, 437-745	4	35
86	A macrothermodynamic approach to the limit of reversible capillary condensation. *Langmuir*, **2005**, 21, 8560-4	4	35

85	Oxygen free radical scavenger properties of dehydroepiandrosterone. *Cell Biochemistry and Function*, **1998**, 16, 57-63	4.2	34
84	Reaction of cysteine and glutathione (GSH) at the freshly fractured quartz surface: a possible role in silica-related diseases?. *Free Radical Biology and Medicine*, **2003**, 35, 752-62	7.8	34
83	Variability of Biological Responses to Silicas: Effect of Origin, Crystallinity, and State of Surface on Generation of Reactive Oxygen Species and Morphological Transformation of Mammalian Cells. *Journal of Environmental Pathology, Toxicology and Oncology*, **2001**, 20, 14	2.1	34
82	Bioweathering of chrysotile by fungi isolated in ophiolitic sites. *FEMS Microbiology Letters*, **2008**, 285, 242-9	2.9	33
81	Potential toxicity of nonregulated asbestiform minerals: balangeroite from the western Alps. Part 3: Depletion of antioxidant defenses. *Journal of Toxicology and Environmental Health - Part A: Current Issues*, **2005**, 68, 41-9	3.2	33
80	Role of urokinase in the fibrogenic response of the lung to mineral particles. *American Journal of Respiratory and Critical Care Medicine*, **1998**, 157, 617-28	10.2	32
79	Long and short fiber amosite asbestos alters at a different extent the redox metabolism in human lung epithelial cells. *Toxicology and Applied Pharmacology*, **2003**, 193, 106-15	4.6	31
78	The role of metals in autoimmune vasculitis: epidemiological and pathogenic study. *Science of the Total Environment*, **2001**, 270, 179-90	10.2	31
77	Surface iron inhibits quartz-induced cytotoxic and inflammatory responses in alveolar macrophages. *Chemical Research in Toxicology*, **2011**, 24, 99-110	4	29
76	A new approach to the decontamination of asbestos-polluted waters by treatment with oxalic acid under power ultrasound. *Ultrasonics Sonochemistry*, **2008**, 15, 420-427	8.9	28
75	Ascorbic acid modifies the surface of asbestos: possible implications in the molecular mechanisms of toxicity. *Chemical Research in Toxicology*, **2003**, 16, 328-35	4	27
74	Inorganic materials and living organisms: surface modifications and fungal responses to various asbestos forms. *Chemistry - A European Journal*, **2005**, 11, 5611-8	4.8	27
73	Surface oxygen radicals originating via redox reactions during the mechanical activation of crystalline SiO2 in hydrogen peroxide. *Colloids and Surfaces*, **1990**, 45, 155-165		27
72	Inactivation of TiO2 nano-powders for the preparation of photo-stable sunscreens via carbon-based surface modification. *Journal of Materials Chemistry*, **2012**, 22, 19105		26
71	Imogolite: an aluminosilicate nanotube endowed with low cytotoxicity and genotoxicity. *Chemical Research in Toxicology*, **2014**, 27, 1142-54	4	25
70	In vitro cellular responses to silicon carbide nanoparticles: impact of physico-chemical features on pro-inflammatory and pro-oxidative effects. *Journal of Nanoparticle Research*, **2012**, 14, 1	2.3	25
69	Surface reactivity, cytotoxic, and morphological transforming effects of diatomaceous Earth products in Syrian hamster embryo cells. *Toxicological Sciences*, **2006**, 91, 510-20	4.4	25
68	Energetics of adsorption in the alumina□water system microcalorimetric study on the influence of adsorption temperature on surface processes. *Journal of Colloid and Interface Science*, **1978**, 64, 470-479	9.3	25

67	Nearly free surface silanols are the critical molecular moieties that initiate the toxicity of silica particles. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 27836-27846	11.5	25
66	Crystalline phase modulates the potency of nanometric TiO2 to adhere to and perturb the stratum corneum of porcine skin under indoor light. *Chemical Research in Toxicology*, **2013**, 26, 1579-90	4	24
65	Physical and biochemical interactions of soil fungi with asbestos fibers. *Environmental Toxicology and Chemistry*, **2004**, 23, 938-44	3.8	24
64	Quartz inhibits glucose 6-phosphate dehydrogenase in murine alveolar macrophages. *Chemical Research in Toxicology*, **2008**, 21, 888-94	4	23
63	The combination of oxalic acid with power ultrasound fully degrades chrysotile asbestos fibres. *Journal of Environmental Monitoring*, **2007**, 9, 1064-6		23
62	Potential toxicity of nonregulated asbestiform minerals: balangeroite from the western Alps. Part 2: Oxidant activity of the fibers. *Journal of Toxicology and Environmental Health - Part A: Current Issues*, **2005**, 68, 21-39	3.2	23
61	Interaction of fibrinogen and albumin with titanium dioxide nanoparticles of different crystalline phases. *Journal of Physics: Conference Series*, **2013**, 429, 012014	0.3	22
60	Iron inhibits the nitric oxide synthesis elicited by asbestos in murine macrophages. *Free Radical Biology and Medicine*, **2001**, 31, 412-7	7.8	22
59	Possible Chemical Source of Discrepancy between in Vitro and in Vivo Tests in Nanotoxicology Caused by Strong Adsorption of Buffer Components. *Chemical Research in Toxicology*, **2015**, 28, 87-91	4	21
58	Loss of Surface Reactivity upon Heating Amphibole Asbestos. *Langmuir*, **2002**, 18, 4345-4350	4	21
57	A novel type of active site at the surface of crystalline SiO2 (a-quartz) and its possible impact on pathogenicity. *Canadian Journal of Chemistry*, **1991**, 69, 1427-1434	0.9	21
56	Hydroxyl density affects the interaction of fibrinogen with silica nanoparticles at physiological concentration. *Journal of Colloid and Interface Science*, **2014**, 419, 86-94	9.3	20
55	The effect of weathering on ecopersistence, reactivity, and potential toxicity of naturally occurring asbestos and asbestiform minerals. *Journal of Toxicology and Environmental Health - Part A: Current Issues*, **2009**, 72, 305-14	3.2	20
54	Weathering of chrysotile asbestos by the serpentine rock-inhabiting fungus Verticillium leptobactrum. *FEMS Microbiology Ecology*, **2009**, 69, 132-41	4.3	20
53	Use of Nitroxides as Topological Monitors of the Interaction of Silica-Based Particles with Components of the Biological Environment. *Journal of Colloid and Interface Science*, **1997**, 191, 154-65	9.3	20
52	Interactions of sterile-cultured lichen-forming ascomycetes with asbestos fibres. *Mycological Research*, **2007**, 111, 473-81		20
51	Cleavage of the fifth component of human complement and release of a split product with C5a-like activity by crystalline silica through free radical generation and kallikrein activation. *Toxicology and Applied Pharmacology*, **2002**, 179, 129-36	4.6	20
50	Specific effects of single antioxidants in the lipid peroxidation caused by nano-titania used in sunscreen lotions. *Journal of Photochemistry and Photobiology B: Biology*, **2009**, 96, 130-5	6.7	19

49	Surface reactivity, cytotoxicity, and transforming potency of iron-covered compared to untreated refractory ceramic fibers. *Journal of Toxicology and Environmental Health - Part A: Current Issues*, **2002**, 65, 2007-27	3.2	19
48	Reactive Sites at the Surface of Crocidolite Asbestos *Langmuir*, **1999**, 15, 5742-5752	4	19
47	Non-animal Tests for Evaluating the Toxicity of Solid Xenobiotics: The Report and Recommendations of ECVAM Workshop 301,2. *ATLA Alternatives To Laboratory Animals*, **1998**, 26, 579-615	2.1	19
46	The influence of surface charge and photo-reactivity on skin-permeation enhancer property of nano-TiO In ex vivo pig skin model under indoor light. *International Journal of Pharmaceutics*, **2014**, 467, 90-9	6.5	18
45	Mineralogical analyses and in vitro screening tests for the rapid evaluation of the health hazard of volcanic ash at Rabaul volcano, Papua New Guinea. *Bulletin of Volcanology*, **2010**, 72, 1077-1092	2.4	17
44	Reactivity towards water of silicon nitride: Energy of interaction and hydration dehydration mechanism. *Journal of Materials Science*, **1989**, 24, 549-556	4.3	17
43	Editors Highlight: Abrasion of Artificial Stones as a New Cause of an Ancient Disease. Physicochemical Features and Cellular Responses. *Toxicological Sciences*, **2016**, 153, 4-17	4.4	16
42	Surface reactivity and cell responses to chrysotile asbestos nanofibers. *Chemical Research in Toxicology*, **2012**, 25, 884-94	4	16
41	Altered excitability of cultured chromaffin cells following exposure to multi-walled carbon nanotubes. *Nanotoxicology*, **2012**, 6, 47-60	5.3	16
40	What is the relationship between hemolytic potential and fibrogenicity of mineral dusts?. *Archives of Environmental Health*, **1993**, 48, 343-7		16
39	Free-radical chemistry as a means to evaluate lunar dust health hazard in view of future missions to the moon. *Astrobiology*, **2015**, 15, 371-80	3.7	15
38	Redox state and mobility of iron at the asbestos surface: a voltammetric approach. *Journal of Materials Chemistry*, **2001**, 11, 1495-1501		15
37	New detoxification processes for asbestos fibers in the environment. *Journal of Toxicology and Environmental Health - Part A: Current Issues*, **2010**, 73, 368-77	3.2	14
36	Role of associated mineral fibres in chrysotile asbestos health effects: the case of balangeroite. *Annals of Occupational Hygiene*, **2009**, 53, 491-7		14
35	Nanosized TiO2 is internalized by dorsal root ganglion cells and causes damage via apoptosis. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2015**, 11, 1309-19	6	13
34	Lichen deterioration of asbestos and asbestiform minerals of serpentinite rocks in Western Alps. *International Biodeterioration and Biodegradation*, **2013**, 84, 342-350	4.8	13
33	Formation of a vitreous phase at the surface of some commercial diatomaceous earth prevents the onset of oxidative stress effects. *Chemical Research in Toxicology*, **2009**, 22, 136-45	4	13
32	Surface interaction between metallic cobalt and tungsten carbideparticles as a primary cause of hard metal lung disease. *Journal of Materials Chemistry*, **1997**, 7, 1647-1654		12

31	Chemical Characterization and Reactivity of Iron Chelator-Treated Amphibole Asbestos. *Environmental Health Perspectives*, **1997**, 105, 1021	8.4	12
30	Simian virus 40 infection down-regulates the expression of nitric oxide synthase in human mesothelial cells. *Cancer Research*, **2004**, 64, 4082-4	10.1	12
29	Variability of biological effects of silicas: different degrees of activation of the fifth component of complement by amorphous silicas. *Toxicology and Applied Pharmacology*, **2005**, 208, 68-77	4.6	12
28	potential evidences silanol heterogeneity induced by metal contaminants at the quartz surface: Implications in membrane damage. *Colloids and Surfaces B: Biointerfaces*, **2017**, 157, 449-455	6	11
27	Crystalline silica incubated in ascorbic acid acquires a higher cytotoxic potential. *Toxicology and Industrial Health*, **2002**, 18, 249-55	1.8	11
26	Spectroscopic, structural and microcalorimetric study of stishovite, a non-pathogenic polymorph of SiO2. *Journal of Materials Chemistry*, **1995**, 5, 1935		11
25	Assessment of the potential respiratory hazard of volcanic ash from future Icelandic eruptions: a study of archived basaltic to rhyolitic ash samples. *Environmental Health*, **2017**, 16, 98	6	10
24	Zeolites as model solids for investigations on the role of iron at the solid-liquid interface in particulate toxicity. *Research on Chemical Intermediates*, **1999**, 25, 95-109	2.8	10
23	Graphenic Nanoparticles from Combustion Sources Scavenge Hydroxyl Radicals Depending Upon Their Structure. *BioNanoScience*, **2013**, 3, 112-122	3.4	9
22	Carbon in intimate contact with quartz reduces the biological activity of crystalline silica dusts. *Chemical Research in Toxicology*, **2013**, 26, 46-54	4	9
21	Toxicity of boehmite nanoparticles: impact of the ultrafine fraction and of the agglomerates size on cytotoxicity and pro-inflammatory response. *Inhalation Toxicology*, **2014**, 26, 545-53	2.7	9
20	Surface Properties of Vitreous Fibers. *Journal of Colloid and Interface Science*, **2000**, 224, 169-178	9.3	9
19	In vitro cellular responses to silicon carbide particles manufactured through the Acheson process: impact of physico-chemical features on pro-inflammatory and pro-oxidative effects. *Toxicology in Vitro*, **2014**, 28, 856-65	3.6	8
18	Surface Properties of a Pyrogenic Low Surface Area Silica: A Microcalorimetric and IR Spectroscopic Investigation. *Adsorption Science and Technology*, **1988**, 5, 239-256	3.6	8
17	The surface reactivity and implied toxicity of ash produced from sugarcane burning. *Environmental Toxicology*, **2014**, 29, 503-16	4.2	7
16	Thermodynamic aspects in the adsorption of polynuclear aromatic hydrocarbons on chrysotile and silica possible relation to synergistic effects in lung toxicity. *Canadian Journal of Chemistry*, **1989**, 67, 289-296	0.9	7
15	Chemical Functionalities at the Broken Fibre Surface Relatable to Free Radicals Production **1991**, 415-432		7
14	Spontaneous polymerisation on amphibole asbestos: relevance to asbestos removal. *Chemical Communications*, **2001**, 2182-3	5.8	6

13	Asbestiform Minerals Associated with Chrysotile from the Western Alps (Piedmont - Italy): Chemical Characteristics and Possible Related Toxicity **1991**, 269-283		6
12	Effect of Chelators on the Surface Properties of Asbestos **1994**, 425-432		6
11	Quantitative Flow Cytometric Evaluation of Oxidative Stress and Mitochondrial Impairment in RAW 264.7 Macrophages after Exposure to Pristine, Acid Functionalized, or Annealed Carbon Nanotubes. *Nanomaterials*, **2020**, 10,	5.4	5
10	Physico-chemical properties of quartz from industrial manufacturing and its cytotoxic effects on alveolar macrophages: The case of green sand mould casting for iron production. *Journal of Hazardous Materials*, **2016**, 312, 18-27	12.8	5
9	Ion release and tarnishing behavior of Au and Pd based amorphous alloys in artificial sweat. *Corrosion Science*, **2013**, 77, 135-142	6.8	5
8	Inhibition of catecholamine secretion by iron-rich and iron-deprived multiwalled carbon nanotubes in chromaffin cells. *NeuroToxicology*, **2013**, 39, 84-94	4.4	5
7	Soil Fungal Hyphae Bind and Attack Asbestos Fibers. *Angewandte Chemie*, **2003**, 115, 229-232	3.6	5
6	Geological and Analytical Procedures for the Evaluation of Asbestos-Related Risk in Underground and Surface Rock Excavation **2015**, 619-622		4
5	Identification and Preliminary Toxicological Assessment of a Non-Regulated Mineral Fiber: Fibrous Antigorite from New Caledonia. *Environmental and Engineering Geoscience*, **2020**, 26, 89-97	0.7	4
4	Evaluation of the Surface Acidity of Some Phyllosilicates in Relation to Their Inactivating Activity toward the Enzyme Human Leucocyte Elastase *Langmuir*, **1997**, 13, 919-927	4	2
3	Study of the Stability of a Paramagnetic Label Linked to Mesoporous Silica Surface in Contact with Rat Mesothelial Cells in Culture. *Environmental Health Perspectives*, **1997**, 105, 1031	8.4	2
2	Which Surface Functionalities are implied in Dust Toxicity? **1994**, 347-358		2
1	Morphological and chemical properties of fibrous antigorite from lateritic deposit of New Caledonia in view of hazard assessment. *Science of the Total Environment*, **2021**, 777, 146185	10.2	2