Ivana Fenoglio

List of Publications by Year
in descending order

87	4,646	109264 35	98753 67
papers	citations	h-index	g-index

88	88	88	5980
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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, 141-151.	1.3	310
2	Reactivity of carbon nanotubes: Free radical generation or scavenging activity?. Free Radical Biology and Medicine, 2006, 40, 1227-1233.	1.3	279
3	Physico-chemical features of engineered nanoparticles relevant to their toxicity. Nanotoxicology, 2010, 4, 347-363.	1.6	261
4	Structural Defects Play a Major Role in the Acute Lung Toxicity of Multiwall Carbon Nanotubes: Toxicological Aspects. Chemical Research in Toxicology, 2008, 21, 1698-1705.	1.7	246
5	Structural Defects Play a Major Role in the Acute Lung Toxicity of Multiwall Carbon Nanotubes: Physicochemical Aspects. Chemical Research in Toxicology, 2008, 21, 1690-1697.	1.7	210
6	Low Doses of Pristine and Oxidized Single-Wall Carbon Nanotubes Affect Mammalian Embryonic Development. ACS Nano, 2011, 5, 4624-4633.	7.3	201
7	Nonâ€UVâ€Induced Radical Reactions at the Surface of TiO₂ Nanoparticles That May Trigger Toxic Responses. Chemistry - A European Journal, 2009, 15, 4614-4621.	1.7	165
8	Distinctive Toxicity of TiO₂ Rutile/Anatase Mixed Phase Nanoparticles on Caco-2 Cells. Chemical Research in Toxicology, 2012, 25, 646-655.	1.7	162
9	Multiple aspects of the interaction of biomacromolecules with inorganic surfaces. Advanced Drug Delivery Reviews, 2011, 63, 1186-1209.	6.6	148
10	Toxic Potential of Mineral Dusts. Elements, 2007, 3, 407-414.	0.5	131
11	An Integrated Approach to the Study of the Interaction between Proteins and Nanoparticles. Langmuir, 2010, 26, 8336-8346.	1.6	110
12	Thickness of Multiwalled Carbon Nanotubes Affects Their Lung Toxicity. Chemical Research in Toxicology, 2012, 25, 74-82.	1.7	105
13	Sintered Indium-Tin-Oxide (ITO) Particles: A New Pneumotoxic Entity. Toxicological Sciences, 2009, 108, 472-481.	1.4	98
14	Surface reactivity of volcanic ash from the eruption of SoufriÃ¨re Hills volcano, Montserrat, West Indies with implications for health hazards. Environmental Research, 2003, 93, 202-215.	3.7	90
15	Effect of chemical composition and state of the surface on the toxic response to high aspect ratio nanomaterials. Nanomedicine, 2011, 6, 899-920.	1.7	81
16	Does Vitreous Silica Contradict the Toxicity of the Crystalline Silica Paradigm?. Chemical Research in Toxicology, 2010, 23, 620-629.	1.7	80
17	Free radical generation in the toxicity of inhaled mineral particles: the role of iron speciation at the surface of asbestos and silica. Redox Report, 2001, 6, 235-241.	1.4	76
18	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.	2.1	73

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19	Role of particle coating in controlling skin damage photoinduced by titania nanoparticles. Free Radical Research, 2009, 43, 312-322.	1.5	71
20	Towards predicting the lung fibrogenic activity of nanomaterials: experimental validation of an in vitro fibroblast proliferation assay. Particle and Fibre Toxicology, 2013, 10, 52.	2.8	69
21	Multi-walled carbon nanotubes directly induce epithelial-mesenchymal transition in human bronchial epithelial cells via the TGF-Î²-mediated Akt/GSK-3Î²/SNAIL-1 signalling pathway. Particle and Fibre Toxicology, 2015, 13, 27.	2.8	65
22	Insight into ultrasound-mediated reactive oxygen species generation by various metal-porphyrin complexes. Free Radical Biology and Medicine, 2018, 121, 190-201.	1.3	60
23	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, 938-949.	1.3	59
24	Possible Role of Ascorbic Acid in the Oxidative Damage Induced by Inhaled Crystalline Silica Particles. Chemical Research in Toxicology, 2000, 13, 971-975.	1.7	57
25	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.	1.7	55
26	Singlet oxygen plays a key role in the toxicity and DNA damage caused by nanometric TiO2 in human keratinocytes. Nanoscale, 2013, 5, 6567.	2.8	55
27	Physicochemical Determinants in the Cellular Responses to Nanostructured Amorphous Silicas. Toxicological Sciences, 2012, 128, 158-170.	1.4	48
28	Soil Fungal Hyphae Bind and Attack Asbestos Fibers. Angewandte Chemie - International Edition, 2003, 42, 219-222.	7.2	45
29	In vitro genotoxicity assessment of commercial quartz flours in comparison to standard DQ12 quartz. International Journal of Hygiene and Environmental Health, 2004, 207, 105-113.	2.1	44
30	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.	0.6	43
31	Decreasing the oxidative potential of TiO2 nanoparticles through modification of the surface with carbon: a new strategy for the production of safe UV filters. Chemical Communications, 2010, 46, 8478.	2.2	42
32	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, 106-115.	1.3	39
33	The oxidation of glutathione by cobalt/tungsten carbide contributes to hard metal-induced oxidative stress. Free Radical Research, 2008, 42, 437-745.	1.5	39
34	Ultrasound-activated decafluoropentane-cored and chitosan-shelled nanodroplets for oxygen delivery to hypoxic cutaneous tissues. RSC Advances, 2014, 4, 38433-38441.	1.7	39
35	Pseudoalkaloid taxanes from Taxus baccata. Phytochemistry, 1993, 33, 1521-1523.	1.4	38
36	Effects of yew alkaloids and related compounds on guinea-pig isolated perfused heart and papillary muscle. Life Sciences, 1996, 58, 845-854.	2.0	36

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37	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, 752-762.	1.3	35
38	Structure-Activity Relationships of New Taxoids Derived from 14.beta.-Hydroxy-10-deacetylbaccatin III. Journal of Medicinal Chemistry, 1994, 37, 1408-1410.	2.9	34
39	Inorganic Materials and Living Organisms: Surface Modifications and Fungal Responses to Various Asbestos Forms. Chemistry - A European Journal, 2005, 11, 5611-5618.	1.7	34
40	Surface Iron Inhibits Quartz-Induced Cytotoxic and Inflammatory Responses in Alveolar Macrophages. Chemical Research in Toxicology, 2011, 24, 99-110.	1.7	33
41	Synthesis of azetidine-type taxanes. Tetrahedron Letters, 1996, 37, 3203-3206.	0.7	32
42	Ascorbic Acid Modifies the Surface of Asbestos:â€‰ Possible Implications in the Molecular Mechanisms of Toxicity. Chemical Research in Toxicology, 2003, 16, 328-335.	1.7	31
43	Synthesis and biological activity of 14-hydroxydocetaxel. Bioorganic and Medicinal Chemistry Letters, 1994, 4, 1571-1576.	1.0	30
44	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, 1579-1590.	1.7	29
45	Interaction of fibrinogen and albumin with titanium dioxide nanoparticles of different crystalline phases. Journal of Physics: Conference Series, 2013, 429, 012014.	0.3	28
46	Identifying contact-mediated, localized toxic effects of MWCNT aggregates on epithelial monolayers: a single-cell monitoring toxicity assay. Nanotoxicology, 2015, 9, 230-241.	1.6	28
47	Quartz Inhibits Glucose 6-Phosphate Dehydrogenase in Murine Alveolar Macrophages. Chemical Research in Toxicology, 2008, 21, 888-894.	1.7	27
48	Inactivation of TiO2 nano-powders for the preparation of photo-stable sunscreens via carbon-based surface modification. Journal of Materials Chemistry, 2012, 22, 19105.	6.7	27
49	Syntheses and Structureâ^'Activity Relationships of Novel Nor-seco Taxoids. Journal of Organic Chemistry, 1998, 63, 1637-1645.	1.7	26
50	Iron inhibits the nitric oxide synthesis elicited by asbestos in murine macrophages. Free Radical Biology and Medicine, 2001, 31, 412-417.	1.3	26
51	Identification of physicochemical properties that modulate nanoparticle aggregation in blood. Beilstein Journal of Nanotechnology, 2020, 11, 550-567.	1.5	26
52	Synthesis and Structure-Activity Relationships of Novel Nor-Seco Analogs of Taxol and Taxotere. Journal of Organic Chemistry, 1994, 59, 515-517.	1.7	25
53	Surface Reactivity, Cytotoxic, and Morphological Transforming Effects of Diatomaceous Earth Products in Syrian Hamster Embryo Cells. Toxicological Sciences, 2006, 91, 510-520.	1.4	25
54	Occupational Exposure to Carbon Nanotubes and Carbon Nanofibres: More Than a Cobweb. Nanomaterials, 2021, 11, 745.	1.9	25

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55	Fibrinogen enhances the inflammatory response of alveolar macrophages to TiO2, SiO2and carbon nanomaterials. Nanotoxicology, 2014, 10, 1-9.	1.6	23
56	Hydroxyl density affects the interaction of fibrinogen with silica nanoparticles at physiological concentration. Journal of Colloid and Interface Science, 2014, 419, 86-94.	5.0	22
57	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.	1.7	22
58	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, 129-136.	1.3	21
59	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, 130-135.	1.7	21
60	Inhibition of the ROS-mediated cytotoxicity and genotoxicity of nano-TiO2 toward human keratinocyte cells by iron doping. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	19
61	The Role of Mechanochemistry in the Pulmonary Toxicity Caused by Particulate Minerals. Journal of Materials Synthesis and Processing, 2000, 8, 145-153.	0.3	18
62	Pro- and anti-oxidant properties of near-infrared (NIR) light responsive carbon nanoparticles. Free Radical Biology and Medicine, 2019, 134, 165-176.	1.3	18
63	Altered excitability of cultured chromaffin cells following exposure to multi-walled carbon nanotubes. Nanotoxicology, 2012, 6, 47-60.	1.6	17
64	Biotransformation of Food-Grade and Nanometric TiO2 in the Oralâ€“Gastroâ€“Intestinal Tract: Driving Forces and Effect on the Toxicity toward Intestinal Epithelial Cells. Nanomaterials, 2020, 10, 2132.	1.9	17
65	Nanosized TiO2 is internalized by dorsal root ganglion cells and causes damage via apoptosis. Nanomedicine: Nanotechnology, Biology, and Medicine, 2015, 11, 1309-1319.	1.7	16
66	Applicability and Limitations in the Characterization of Poly-Dispersed Engineered Nanomaterials in Cell Media by Dynamic Light Scattering (DLS). Materials, 2019, 12, 3833.	1.3	16
67	Mechanistic Insights into the Role of Iron, Copper, and Carbonaceous Component on the Oxidative Potential of Ultrafine Particulate Matter. Chemical Research in Toxicology, 2021, 34, 767-779.	1.7	15
68	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.	1.3	14
69	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, 136-145.	1.7	13
70	Novel Base-Catalyzed Rearrangement of the Taxane Skeleton1. Journal of Natural Products, 1997, 60, 464-466.	1.5	12
71	Crystalline silica incubated in ascorbic acid acquires a higher cytotoxic potential. Toxicology and Industrial Health, 2002, 18, 249-255.	0.6	11
72	Screening of Nanoparticle Embryotoxicity Using Embryonic Stem Cells. Methods in Molecular Biology, 2013, 1058, 49-60.	0.4	11

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73	Graphenic Nanoparticles from Combustion Sources Scavenge Hydroxyl Radicals Depending Upon Their Structure. BioNanoScience, 2013, 3, 112-122.	1.5	10
74	Surface reactivity and in vitro toxicity on human bronchial epithelial cells (BEAS-2B) of nanomaterials intermediates of the production of titania-based composites. Toxicology in Vitro, 2016, 34, 171-178.	1.1	10
75	Human flavin-containing monooxygenase 1 and its long-sought hydroperoxyflavin intermediate. Biochemical Pharmacology, 2021, 193, 114763.	2.0	9
76	Molecular Aspects of the Interaction with Gram-Negative and Gram-Positive Bacteria of Hydrothermal Carbon Nanoparticles Associated with Bac8c^{2,5Leu} Antimicrobial Peptide. ACS Omega, 2022, 7, 16402-16413.	1.6	9
77	Soil Fungal Hyphae Bind and Attack Asbestos Fibers. Angewandte Chemie, 2003, 115, 229-232.	1.6	7
78	Inhibition of catecholamine secretion by iron-rich and iron-deprived multiwalled carbon nanotubes in chromaffin cells. NeuroToxicology, 2013, 39, 84-94.	1.4	7
79	A Biomonitoring Pilot Study in Workers from a Paints Production Plant Exposed to Pigment-Grade Titanium Dioxide (TiO2). Toxics, 2022, 10, 171.	1.6	7
80	Spontaneous polymerisation on amphibole asbestos: relevance to asbestos removal. Chemical Communications, 2001, , 2182-2183.	2.2	6
81	Ion release and tarnishing behavior of Au and Pd based amorphous alloys in artificial sweat. Corrosion Science, 2013, 77, 135-142.	3.0	6
82	Syntheses and Structureâ€"Activity Relationships of New Taxoids. ACS Symposium Series, 1994, , 262-275.	0.5	5
83	Efficacy, biocompatibility and degradability of carbon nanoparticles for photothermal therapy of lung cancer. Nanomedicine, 2021, 16, 689-707.	1.7	5
84	Indoor illumination: A possible pitfall in toxicological assessment of photo-active nanomaterials. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 350, 23-31.	2.0	3
85	Biological interactions of ferromagnetic iron oxideâ€"carbon nanohybrids with alveolar epithelial cells. Biomaterials Science, 2022, 10, 3514-3526.	2.6	2
86	Predictive tests to evaluate oxidative potential of engineered nanomaterials. Journal of Physics: Conference Series, 2013, 429, 012024.	0.3	1
87	A compact diode laser based all-fiber delivery system for PDT+PTT with integrated temperature sensing capabilities. , 2017, , .		0