

Francesco Turci

List of Publications by Year in descending order

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82
papers

2,789
citations

186209

28
h-index

197736

49
g-index

100
all docs

100
docs citations

100
times ranked

3867
citing authors

#	ARTICLE	IF	CITATIONS
1	Chrysotile asbestos migration in air from contaminated water: An experimental simulation. <i>Journal of Hazardous Materials</i> , 2022, 424, 127528.	6.5	8
2	Molecular recognition between membrane epitopes and nearly free surface silanols explains silica membranolytic activity. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 217, 112625.	2.5	16
3	Hyphal morphology and substrate porosity -rather than melanization- drive penetration of black fungi into carbonate substrates. <i>Journal of Cultural Heritage</i> , 2021, 48, 244-253.	1.5	11
4	TGA coupled with FTIR gas analysis to quantify the vinyl alcohol unit content in ethylene-vinyl alcohol copolymer. <i>Materials Letters</i> , 2021, 284, 129030.	1.3	5
5	Short Preirradiation of TiO ₂ Nanoparticles Increases Cytotoxicity on Human Lung Coculture System. <i>Chemical Research in Toxicology</i> , 2021, 34, 733-742.	1.7	6
6	Antioxidant Activity of Silica-Based Bioactive Glasses. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 2309-2316.	2.6	11
7	Morphological and chemical properties of fibrous antigorite from lateritic deposit of New Caledonia in view of hazard assessment. <i>Science of the Total Environment</i> , 2021, 777, 146185.	3.9	9
8	Elimination from wastewater of antibiotics reserved for hospital settings, with a Fenton process based on zero-valent iron. <i>Chemosphere</i> , 2021, 283, 131170.	4.2	19
9	Portable Raman Spectrometer for In Situ Analysis of Asbestos and Fibrous Minerals. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 287.	1.3	7
10	Petrofacies for the prediction of NOA content in rocks: application to the "Gronda di Genova" tunneling project. <i>Bulletin of Engineering Geology and the Environment</i> , 2020, 79, 185-204.	1.6	5
11	Identification and Preliminary Toxicological Assessment of a Non-Regulated Mineral Fiber: Fibrous Antigorite from New Caledonia. <i>Environmental and Engineering Geoscience</i> , 2020, 26, 89-97.	0.3	7
12	Hydroxyl radicals and oxidative stress: the dark side of Fe corrosion. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 185, 110542.	2.5	29
13	New Tools for the Evaluation of Asbestos-Related Risk during Excavation in an NOA-Rich Geological Setting. <i>Environmental and Engineering Geoscience</i> , 2020, 26, 113-120.	0.3	2
14	Valorization of MSWI Bottom Ash as a Function of Particle Size Distribution, Using Steam Washing. <i>Sustainability</i> , 2020, 12, 9461.	1.6	2
15	Design, Realization, and Characterization of Advanced Adhesives for Joining Ultra-Stable C/C Based Components. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 2000229.	1.7	3
16	Impact of the Physicochemical Features of TiO ₂ Nanoparticles on Their <i>In Vitro</i> Toxicity. <i>Chemical Research in Toxicology</i> , 2020, 33, 2324-2337.	1.7	33
17	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.	3.3	76
18	Geological Model for Naturally Occurring Asbestos Content Prediction in the Rock Excavation of a Long Tunnel (Gronda di Genova Project, NW Italy). <i>Environmental and Engineering Geoscience</i> , 2020, 26, 107-112.	0.3	1

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19	SWCNTs-porphyrin nano-hybrids selectively activated by ultrasound: an interesting model for sonodynamic applications. <i>RSC Advances</i> , 2020, 10, 21736-21744.	1.7	8
20	Thermal inertization of amphibole asbestos modulates Fe topochemistry and surface reactivity. <i>Journal of Hazardous Materials</i> , 2020, 398, 123119.	6.5	13
21	Estimation of natural asbestos content in rocks by fracture network modeling and petrographic characterization. <i>Engineering Geology</i> , 2020, 271, 105566.	2.9	3
22	Cytotoxicity of fractured quartz on THP-1 human macrophages: role of the membranolytic activity of quartz and phagolysosome destabilization. <i>Archives of Toxicology</i> , 2020, 94, 2981-2995.	1.9	20
23	LiCoO ₂ particles used in Li-ion batteries induce primary mutagenicity in lung cells via their capacity to generate hydroxyl radicals. <i>Particle and Fibre Toxicology</i> , 2020, 17, 6.	2.8	15
24	Iron from a geochemical viewpoint. Understanding toxicity/pathogenicity mechanisms in iron-bearing minerals with a special attention to mineral fibers. <i>Free Radical Biology and Medicine</i> , 2019, 133, 21-37.	1.3	30
25	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.	2.8	72
26	Functionalized nanoporous gold as a new biosensor platform for ultra-low quantitative detection of human serum albumin. <i>Sensors and Actuators B: Chemical</i> , 2019, 288, 460-468.	4.0	21
27	Phototransformation of L-tryptophan and formation of humic substances in water. <i>Environmental Chemistry Letters</i> , 2018, 16, 1035-1041.	8.3	12
28	Innovative unattended SEM-EDS analysis for asbestos fiber quantification. <i>Talanta</i> , 2018, 190, 158-166.	2.9	11
29	Si-OH potential evidences silanol heterogeneity induced by metal contaminants at the quartz surface: Implications in membrane damage. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 157, 449-455.	2.5	16
30	Surface reactivity of amphibole asbestos: a comparison between crocidolite and tremolite. <i>Scientific Reports</i> , 2017, 7, 14696.	1.6	27
31	Biowaste-derived substances as a tool for obtaining magnet-sensitive materials for environmental applications in wastewater treatments. <i>Chemical Engineering Journal</i> , 2017, 310, 307-316.	6.6	42
32	Markers of lipid oxidative damage in the exhaled breath condensate of nano TiO ₂ production workers. <i>Nanotoxicology</i> , 2017, 11, 52-63.	1.6	51
33	Surface and bulk properties of mineral fibres relevant to toxicity. , 2017, , 171-214.		2
34	Microwave-Assisted Synthesis and Physicochemical Characterization of Tetrafuranylporphyrin-Grafted Reduced Graphene Oxide. <i>Chemistry - A European Journal</i> , 2016, 22, 1608-1613.	1.7	15
35	Synthesis of Si-Quartz with Controlled Properties for the Investigation of the Molecular Determinants in Silica Toxicology. <i>Crystal Growth and Design</i> , 2016, 16, 2394-2403.	1.4	14
36	Assessment of asbestos exposure during a simulated agricultural activity in the proximity of the former asbestos mine of Balangero, Italy. <i>Journal of Hazardous Materials</i> , 2016, 308, 321-327.	6.5	27

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37	Gallic acid grafting modulates the oxidative potential of ferrimagnetic bioactive glass-ceramic SC-45. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 148, 592-599.	2.5	7
38	Editor's Highlight: Abrasion of Artificial Stones as a New Cause of an Ancient Disease. Physicochemical Features and Cellular Responses. <i>Toxicological Sciences</i> , 2016, 153, 4-17.	1.4	29
39	Gallic acid grafting to a ferrimagnetic bioactive glass-ceramic. <i>Journal of Non-Crystalline Solids</i> , 2016, 432, 167-175.	1.5	26
40	Markers of oxidative damage of nucleic acids and proteins among workers exposed to TiO ₂ (nano) particles. <i>Occupational and Environmental Medicine</i> , 2016, 73, 110-118.	1.3	76
41	Oxidative stress markers are elevated in exhaled breath condensate of workers exposed to nanoparticles during iron oxide pigment production. <i>Journal of Breath Research</i> , 2016, 10, 016004.	1.5	59
42	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. <i>Journal of Hazardous Materials</i> , 2016, 312, 18-27.	6.5	5
43	Revisiting the paradigm of silica pathogenicity with synthetic quartz crystals: the role of crystallinity and surface disorder. <i>Particle and Fibre Toxicology</i> , 2015, 13, 32.	2.8	77
44	Advanced physico-chemical characterization of chitosan by means of TGA coupled on-line with FTIR and GCMS: Thermal degradation and water adsorption capacity. <i>Polymer Degradation and Stability</i> , 2015, 112, 1-9.	2.7	365
45	Solvent-Free Synthesis of Luminescent Copper(I) Coordination Polymers with Thiourea Derivatives. <i>Crystal Growth and Design</i> , 2015, 15, 2929-2939.	1.4	27
46	Surface alteration mechanism and topochemistry of iron in tremolite asbestos: A step toward understanding the potential hazard of amphibole asbestos. <i>Chemical Geology</i> , 2015, 405, 28-38.	1.4	24
47	Free-Radical Chemistry as a Means to Evaluate Lunar Dust Health Hazard in View of Future Missions to the Moon. <i>Astrobiology</i> , 2015, 15, 371-380.	1.5	21
48	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.	1.7	22
49	The surface reactivity and implied toxicity of ash produced from sugarcane burning. <i>Environmental Toxicology</i> , 2014, 29, 503-516.	2.1	10
50	Hydroxyl density affects the interaction of fibrinogen with silica nanoparticles at physiological concentration. <i>Journal of Colloid and Interface Science</i> , 2014, 419, 86-94.	5.0	22
51	Dissolution reaction and surface iron speciation of UICC crocidolite in buffered solution at pH 7.4: A combined ICP-OES, XPS and TEM investigation. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 127, 221-232.	1.6	23
52	Evolution and Reversibility of Host/Guest Interactions with Temperature Changes in a Methyl Red@Palygorskite Polyfunctional Hybrid Nanocomposite. <i>Journal of Physical Chemistry C</i> , 2014, 118, 19322-19337.	1.5	33
53	Hazard assessment of W and Mo sulphide nanomaterials for automotive use. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	15
54	The influence of surface charge and photo-reactivity on skin-permeation enhancer property of nano-TiO ₂ in ex vivo pig skin model under indoor light. <i>International Journal of Pharmaceutics</i> , 2014, 467, 90-99.	2.6	20

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55	Crystalline Phase Modulates the Potency of Nanometric TiO ₂ to Adhere to and Perturb the Stratum Corneum of Porcine Skin under Indoor Light. <i>Chemical Research in Toxicology</i> , 2013, 26, 1579-1590.	1.7	29
56	Lichen deterioration of asbestos and asbestiform minerals of serpentinite rocks in Western Alps. <i>International Biodeterioration and Biodegradation</i> , 2013, 84, 342-350.	1.9	15
57	Interaction of fibrinogen and albumin with titanium dioxide nanoparticles of different crystalline phases. <i>Journal of Physics: Conference Series</i> , 2013, 429, 012014.	0.3	28
58	Surface Reactivity and Cell Responses to Chrysotile Asbestos Nanofibers. <i>Chemical Research in Toxicology</i> , 2012, 25, 884-894.	1.7	21
59	Rapid purification/oxidation of multi-walled carbon nanotubes under 300 kHz-ultrasound and microwave irradiation. <i>New Journal of Chemistry</i> , 2011, 35, 915.	1.4	31
60	Model System to Study the Influence of Aggregation on the Hemolytic Potential of Silica Nanoparticles. <i>Chemical Research in Toxicology</i> , 2011, 24, 1869-1875.	1.7	48
61	Surface Iron Inhibits Quartz-Induced Cytotoxic and Inflammatory Responses in Alveolar Macrophages. <i>Chemical Research in Toxicology</i> , 2011, 24, 99-110.	1.7	33
62	Preparation and Characterization of Insulin-Loaded Lipid-Based Microspheres Generated by Electrospray. <i>Journal of Dispersion Science and Technology</i> , 2011, 32, 1524-1530.	1.3	19
63	Chemical stability and dehydration behavior of a sepiolite/indigo Maya Blue pigment. <i>Applied Clay Science</i> , 2011, 52, 41-50.	2.6	90
64	Multiple aspects of the interaction of biomacromolecules with inorganic surfaces. <i>Advanced Drug Delivery Reviews</i> , 2011, 63, 1186-1209.	6.6	148
65	The Iron-Related Molecular Toxicity Mechanism of Synthetic Asbestos Nanofibres: A Model Study for High Aspect Ratio Nanoparticles. <i>Chemistry - A European Journal</i> , 2011, 17, 350-358.	1.7	65
66	Effect of chemical composition and state of the surface on the toxic response to high aspect ratio nanomaterials. <i>Nanomedicine</i> , 2011, 6, 899-920.	1.7	81
67	An Integrated Approach to the Study of the Interaction between Proteins and Nanoparticles. <i>Langmuir</i> , 2010, 26, 8336-8346.	1.6	110
68	High aspect ratio materials: role of surface chemistry vs. length in the historical <i>ø</i> long and short amosite asbestos fibers. <i>Inhalation Toxicology</i> , 2010, 22, 984-998.	0.8	40
69	New Detoxification Processes for Asbestos Fibers in the Environment. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2010, 73, 368-377.	1.1	16
70	The Effect of Weathering on Ecopersistence, Reactivity, and Potential Toxicity of Naturally Occurring Asbestos and Asbestiform Minerals. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2009, 72, 305-314.	1.1	23
71	Role of Associated Mineral Fibres in Chrysotile Asbestos Health Effects: The Case of Balangeroite. <i>Annals of Occupational Hygiene</i> , 2009, 53, 491-7.	1.9	18
72	Weathering of chrysotile asbestos by the serpentine rock-inhabiting fungus <i>Verticillium leptobactrum</i> . <i>FEMS Microbiology Ecology</i> , 2009, 69, 132-141.	1.3	39

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73	A new approach to the decontamination of asbestos-polluted waters by treatment with oxalic acid under power ultrasound. <i>Ultrasonics Sonochemistry</i> , 2008, 15, 420-427.	3.8	29
74	The combination of oxalic acid with power ultrasound fully degrades chrysotile asbestos fibres. <i>Journal of Environmental Monitoring</i> , 2007, 9, 1064.	2.1	23
75	Iron-Loaded Synthetic Chrysotile: A New Model Solid for Studying the Role of Iron in Asbestos Toxicity. <i>Chemical Research in Toxicology</i> , 2007, 20, 380-387.	1.7	81
76	A Biomimetic Approach to the Chemical Inactivation of Chrysotile Fibres by Lichen Metabolites. <i>Chemistry - A European Journal</i> , 2007, 13, 4081-4093.	1.7	42
77	Soil Fungi Reduce the Iron Content and the DNA Damaging Effects of Asbestos Fibers. <i>Environmental Science & Technology</i> , 2006, 40, 5793-5798.	4.6	47
78	POTENTIAL TOXICITY OF NONREGULATED ASBESTIFORM MINERALS: BALANGEROITE FROM THE WESTERN ALPS. PART 3: DEPLETION OF ANTIOXIDANT DEFENSES. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2005, 68, 41-49.	1.1	34
79	POTENTIAL TOXICITY OF NONREGULATED ASBESTIFORM MINERALS: BALANGEROITE FROM THE WESTERN ALPS. PART 1: IDENTIFICATION AND CHARACTERIZATION. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2005, 68, 1-19.	1.1	83
80	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.	1.1	28
81	Chrysotile asbestos is progressively converted into a non-fibrous amorphous material by the chelating action of lichen metabolites. <i>Journal of Environmental Monitoring</i> , 2005, 7, 764.	2.1	51
82	Geological mapping for executive design of civil infrastructures: integration of GIS and AutoCAD informative systems for "Gronda di Genova" highway tunnel. <i>Rendiconti Online Societa Geologica Italiana</i> , 0, 52, 12-18.	0.3	0