

Anna L Costa

List of Publications by Citations

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107
papers

2,064
citations

26
h-index

38
g-index

115
ext. papers

2,361
ext. citations

5
avg, IF

4.84
L-index

#	Paper	IF	Citations
107	Catalytic asymmetric synthesis of homoallylic alcohols. <i>Journal of the American Chemical Society</i> , 1993 , 115, 7001-7002	16.4	216
106	Organ burden and pulmonary toxicity of nano-sized copper (II) oxide particles after short-term inhalation exposure. <i>Nanotoxicology</i> , 2016 , 10, 1084-95	5.3	87
105	Silver nanoparticles as a medical device in healthcare settings: a five-step approach for candidate screening of coating agents. <i>Royal Society Open Science</i> , 2018 , 5, 171113	3.3	72
104	Catalytic asymmetric synthesis promoted by a chiral zirconate: Highly enantioselective allylation of aldehydes. <i>Tetrahedron Letters</i> , 1995 , 36, 7897-7900	2	71
103	TiO ₂ based nano-photocatalysis immobilized on cellulose substrates. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014 , 276, 58-64	4.7	58
102	Sol-gel combustion synthesis of BNBT powders. <i>Journal of Sol-Gel Science and Technology</i> , 2008 , 46, 39-45	3.3	55
101	Shape-Related Toxicity of Titanium Dioxide Nanofibres. <i>PLoS ONE</i> , 2016 , 11, e0151365	3.7	39
100	Nano-sized ceramic inks for drop-on-demand ink-jet printing in quadrichromy. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 1979-88	1.3	38
99	NanoTiO@DNA complex: a novel eco, durable, fire retardant design strategy for cotton textiles. <i>Journal of Colloid and Interface Science</i> , 2019 , 546, 174-183	9.3	36
98	Green and easily scalable microwave synthesis of noble metal nanosols (Au, Ag, Cu, Pd) usable as catalysts. <i>New Journal of Chemistry</i> , 2014 , 38, 1401-1409	3.6	33
97	Toxicity of surface-modified copper oxide nanoparticles in a mouse macrophage cell line: Interplay of particles, surface coating and particle dissolution. <i>Chemosphere</i> , 2018 , 196, 482-493	8.4	32
96	TiO ₂ Nanosols Applied Directly on Textiles Using Different Purification Treatments. <i>Materials</i> , 2015 , 8, 7988-7996	3.5	32
95	Organic/Organometallic Crystal Synthesis. 1. Hosting Paramagnetic [(η -Arene) ₂ Cr] ⁺ (Arene = Benzene, Toluene) in Organic Anion Frameworks via OH \cdots O and CH \cdots O Hydrogen Bonds. <i>Organometallics</i> , 1997 , 16, 2070-2079	3.8	32
94	Dispersing Behavior of Hydroxyapatite Powders Produced by Wet-Chemical Synthesis. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 1534-1539	3.8	32
93	Environmental Impacts by Fragments Released from Nanoenabled Products: A Multiassay, Multimaterial Exploration by the SUN Approach. <i>Environmental Science & Technology</i> , 2018 , 52, 1514-1524	19.3	30
92	Improvements in the production of Yb:YAG transparent ceramic materials: Spray drying optimisation. <i>Optical Materials</i> , 2012 , 34, 995-1001	3.3	30
91	TiO ₂ based photocatalytic coatings: From nanostructure to functional properties. <i>Chemical Engineering Journal</i> , 2013 , 225, 880-886	14.7	30

90	New Computational and Experimental Evidence for the Mechanism of the Sakurai Reaction. <i>Journal of the American Chemical Society</i> , 1997 , 119, 12131-12135	16.4	30
89	Pyrochlore phase and microstructure development in lead magnesium niobate materials. <i>Journal of the European Ceramic Society</i> , 2001 , 21, 1165-1170	6	30
88	Coatings made of proteins adsorbed on TiO ₂ nanoparticles: a new flame retardant approach for cotton fabrics. <i>Cellulose</i> , 2018 , 25, 2755-2765	5.5	29
87	Colloidal characterization of CuO nanoparticles in biological and environmental media. <i>Environmental Science: Nano</i> , 2017 , 4, 1264-1272	7.1	28
86	Bimetallic Nanoparticles as Efficient Catalysts: Facile and Green Microwave Synthesis. <i>Materials</i> , 2016 , 9,	3.5	28
85	Multiple endpoints to evaluate pristine and remediated titanium dioxide nanoparticles genotoxicity in lung epithelial A549 cells. <i>Toxicology Letters</i> , 2017 , 276, 48-61	4.4	27
84	Easily scalable synthesis of Ni nanosols suitable for the hydrogenation of 4-nitrophenol to p-aminophenol under mild condition. <i>Chemical Engineering Journal</i> , 2013 , 215-216, 616-625	14.7	27
83	Nb-Doped PZT Material by Sol-Gel Combustion. <i>Journal of Sol-Gel Science and Technology</i> , 2005 , 36, 203-211	2.1	27
82	A Tractable Method for Measuring Nanomaterial Risk Using Bayesian Networks. <i>Nanoscale Research Letters</i> , 2016 , 11, 503	5	26
81	Sol-gel combustion synthesis of chromium doped yttrium aluminum perovskites. <i>Journal of Sol-Gel Science and Technology</i> , 2009 , 50, 449-455	2.3	25
80	Reactive sintering of YAG-based materials using micrometer-sized powders. <i>Journal of the European Ceramic Society</i> , 2008 , 28, 1065-1071	6	25
79	Hollow-fiber flow field-flow fractionation and multi-angle light scattering investigation of the size, shape and metal-release of silver nanoparticles in aqueous medium for nano-risk assessment. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015 , 106, 92-9	3.5	24
78	Synthesis of Nd-YAG material by citrate-nitrate sol-gel combustion route. <i>Advanced Engineering Materials</i> , 2007 , 9, 307-312	3.5	23
77	Experimental features affecting the transparency of YAG ceramics. <i>Optical Materials</i> , 2011 , 33, 713-721	3.3	22
76	Synthesis of nanostructured magnetic photocatalyst by colloidal approach and spray-drying technique. <i>Journal of Colloid and Interface Science</i> , 2012 , 388, 31-9	9.3	21
75	Titanium dioxide nanoparticles enhance macrophage activation by LPS through a TLR4-dependent intracellular pathway. <i>Toxicology Research</i> , 2015 , 4, 385-398	2.6	20
74	Dip coating of air purifier ceramic honeycombs with photocatalytic TiO nanoparticles: A case study for occupational exposure. <i>Science of the Total Environment</i> , 2018 , 630, 1283-1291	10.2	20
73	Characterization of Yb:YAG ceramics as laser media. <i>Optical Materials</i> , 2010 , 33, 205-210	3.3	20

72	alpha-Alumina-H ₂ O Interface Analysis by Electroacoustic Measurements. <i>Journal of Colloid and Interface Science</i> , 1999 , 212, 350-356	9.3	20
71	O ^H D and CH ^D Hydrogen Bonding in Hydrated Crystals of Paramagnetic [(C ₆ H ₆) ₂ Cr] ⁺ . <i>Organometallics</i> , 1996 , 15, 1084-1086	3.8	20
70	Silica matrix encapsulation as a strategy to control ROS production while preserving photoreactivity in nano-TiO ₂ . <i>Environmental Science: Nano</i> , 2016 , 3, 602-610	7.1	19
69	Lipopolysaccharide Adsorbed to the Bio-Corona of TiO Nanoparticles Powerfully Activates Selected Pro-inflammatory Transduction Pathways. <i>Frontiers in Immunology</i> , 2017 , 8, 866	8.4	19
68	Synthesis of La and Nb doped PZT powder by the gel-combustion method. <i>Nanotechnology</i> , 2006 , 17, 1731-5	3.4	19
67	Direct synthesis of PMN samples by spray-drying. <i>Journal of the European Ceramic Society</i> , 2002 , 22, 2093-2100	3.1	19
66	Elasticity and yielding of a calcite paste: scaling laws in a dense colloidal suspension. <i>Soft Matter</i> , 2017 , 13, 2014-2023	3.6	18
65	Bentonites functionalized by impregnation with TiO ₂ , Ag, Pd and Au nanoparticles. <i>Applied Clay Science</i> , 2017 , 146, 1-6	5.2	18
64	Nanoencapsulation techniques as a safer by (molecular) design tool. <i>Nano Structures Nano Objects</i> , 2018 , 13, 155-162	5.6	18
63	Impact and effectiveness of risk mitigation strategies on the insurability of nanomaterial production: evidences from industrial case studies. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2015 , 7, 839-55	9.2	18
62	Ceramic pigments with sphene structure obtained by both spray- and freeze-drying techniques. <i>Powder Technology</i> , 2009 , 193, 1-5	5.2	17
61	Chlorinated organics total oxidation over V ₂ O ₅ /TiO ₂ catalysts prepared by polyol-mediated synthesis. <i>Applied Catalysis A: General</i> , 2007 , 325, 309-315	5.1	17
60	Addition of Dialkylzinc to Ketones in the Presence of Silylating Agents: Synthesis of Functionalized Tertiary Silyl Ethers. <i>Journal of Organic Chemistry</i> , 1998 , 63, 1330-1333	4.2	17
59	A panel of in vitro tests to evaluate genotoxic and morphological neoplastic transformation potential on Balb/3T3 cells by pristine and remediated titania and zirconia nanoparticles. <i>Mutagenesis</i> , 2016 , 31, 511-29	2.8	17
58	PZT prepared by spray drying: From powder synthesis to electromechanical properties. <i>Journal of the European Ceramic Society</i> , 2005 , 25, 3323-3334	6	16
57	Multifunctional Hybrid Nanocomposite Nanofibers Produced by Colloid Electrospinning from Water Solutions. <i>Current Nanoscience</i> , 2014 , 11, 41-48	1.4	16
56	Hollow-fiber flow field-flow fractionation and multi-angle light scattering as a new analytical solution for quality control in pharmaceutical nanotechnology. <i>Microchemical Journal</i> , 2018 , 136, 149-156	4.8	15
55	Hazard Screening Methods for Nanomaterials: A Comparative Study. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	15

54	Methylation of Ir(iii)-tetrazolato complexes: an effective route to modulate the emission outputs and to switch to antimicrobial properties. <i>Dalton Transactions</i> , 2017 , 46, 12328-12338	4.3	15
53	Malayaite ceramic pigments: A combined optical spectroscopy and neutron/X-ray diffraction study. <i>Materials Research Bulletin</i> , 2009 , 44, 1778-1785	5.1	14
52	Microwave-assisted polyol synthesis of sub-micrometer Y2O3 and Yb-Y2O3 particles for laser source application. <i>Ceramics International</i> , 2010 , 36, 103-106	5.1	14
51	CuO nanoparticle penetration through intact and damaged human skin. <i>New Journal of Chemistry</i> , 2019 , 43, 17033-17039	3.6	14
50	Synthesis of nanosized zirconium diboride powder via oxide-borohydride solid-state reaction. <i>Scripta Materialia</i> , 2015 , 109, 100-103	5.6	13
49	Synthesis of Cr-doped CaTiSiO5 ceramic pigments by spray drying. <i>Materials Research Bulletin</i> , 2009 , 44, 918-924	5.1	13
48	Assessment of cytotoxicity of metal oxide nanoparticles on the basis of fundamental physical-chemical parameters: a robust approach to grouping. <i>Environmental Science: Nano</i> , 2019 , 6, 3102-3112	7.1	12
47	Multiple approach to test nano TiO2 photo-activity. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014 , 292, 26-33	4.7	12
46	Tailored SiO2-based coatings for dye doped superparamagnetic nanocomposites. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012 , 410, 111-118	5.1	12
45	Evaluation of existing control measures in reducing health and safety risks of engineered nanomaterials. <i>Environmental Science: Nano</i> , 2016 , 3, 869-882	7.1	11
44	Risk Management Framework for Nano-Biomaterials Used in Medical Devices and Advanced Therapy Medicinal Products. <i>Materials</i> , 2020 , 13,	3.5	11
43	Innovative synthesis of nanostructured composite materials by a spray-freeze drying process: Efficient catalysts and photocatalysts preparation. <i>Catalysis Today</i> , 2019 , 334, 193-202	5.3	11
42	Polyvinyl alcohol/silver electrospun nanofibers: Biocidal filter media capturing virus-size particles. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 51380	2.9	11
41	Assessing occupational risk in designs of production processes of nano-materials. <i>NanoImpact</i> , 2019 , 14, 100149	5.6	10
40	Comparative effects of metal oxide nanoparticles on human airway epithelial cells and macrophages. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	10
39	Heterocoagulation-spray drying process for the inclusion of ceramic pigments. <i>Journal of the European Ceramic Society</i> , 2008 , 28, 169-176	6	10
38	Innovative and Sustainable Production of Biopolymers 2019 , 131-148		9
37	Effects of powder processing on colloidal and microstructural characteristics of SiC powders. <i>Materials Chemistry and Physics</i> , 2007 , 103, 70-77	4.4	9

36	Ferroelectric Relaxor Thin Films Grown by Pulsed Laser Deposition. <i>Ferroelectrics</i> , 2003 , 293, 189-199	0.6	9
35	Processing of a multilayer bender type actuator. <i>Journal of the European Ceramic Society</i> , 2001 , 21, 2011-2014		9
34	Influence of Ionic Environment and pH on the Electrokinetic Properties of Ball Clays. <i>Clays and Clay Minerals</i> , 2001 , 49, 263-269	2.1	9
33	Simple ions control the elasticity of calcite gels via interparticle forces. <i>Journal of Colloid and Interface Science</i> , 2019 , 553, 280-288	9.3	8
32	In Vitro Toxicity of TiO:SiO Nanocomposites with Different Photocatalytic Properties. <i>Nanomaterials</i> , 2019 , 9,	5.4	8
31	Length-dependent toxicity of TiO nanofibers: mitigation via shortening. <i>Nanotoxicology</i> , 2020 , 14, 433-452	4.5	8
30	Pilot- plant study for the photocatalytic/electrochemical degradation of Rhodamine B. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 1794-1804	6.8	7
29	Crystallization behaviour of Yb-doped and undoped YAG nanoceramics synthesized by microwave-assisted urea precipitation. <i>Ceramics International</i> , 2014 , 40, 11837-11844	5.1	6
28	Synthesis of Nb Doped Lead Zirconate Titanate by Chemical Methods. <i>Advanced Engineering Materials</i> , 2006 , 8, 572-576	3.5	6
27	Insulating Thermal and Water-Resistant Hybrid Coating for Fabrics. <i>Coatings</i> , 2020 , 10, 72	2.9	6
26	Understanding the impact of more realistic low-dose, prolonged engineered nanomaterial exposure on genotoxicity using 3D models of the human liver. <i>Journal of Nanobiotechnology</i> , 2021 , 19, 193	9.4	6
25	Silica modification of titania nanoparticles enhances photocatalytic production of reactive oxygen species without increasing toxicity potential .. <i>RSC Advances</i> , 2018 , 8, 40369-40377	3.7	6
24	Encapsulation of cationic iridium(III) tetrazole complexes into a silica matrix: synthesis, characterization and optical properties. <i>New Journal of Chemistry</i> , 2018 , 42, 9635-9644	3.6	5
23	Microwave Assisted Synthesis of Yb:Y2O3 Based Materials for Laser Source Application. <i>Advanced Engineering Materials</i> , 2010 , 12, 205-209	3.5	5
22	ASINA Project: Towards a Methodological Data-Driven Sustainable and Safe-by-Design Approach for the Development of Nanomaterials.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 805096	5.8	5
21	Data Shepherding in Nanotechnology. The Initiation. <i>Nanomaterials</i> , 2021 , 11,	5.4	5
20	Nanosilver: An innovative paradigm to promote its safe and active use. <i>NanoImpact</i> , 2018 , 11, 128-135	5.6	5
19	Influence of spray-coating process parameters on the release of TiO2 particles for the production of antibacterial textile. <i>NanoImpact</i> , 2020 , 19, 100245	5.6	4

18	Pulmonary toxicity and gene expression changes after short-term inhalation exposure to surface-modified copper oxide nanoparticles.. <i>NanoImpact</i> , 2021 , 22, 100313	5.6	4
17	Dosimetry - exploring the sensitivity of deposited dose predictions vs. affinity, polydispersity, freeze-thawing, and analytical methods. <i>Nanotoxicology</i> , 2021 , 15, 21-34	5.3	4
16	Applying Safety by Molecular Design Concepts to Nanomaterials Risk Management. <i>Innovation, Technology and Knowledge Management</i> , 2016 , 171-195	0.1	3
15	Silica-coating as protective shell for the risk management of nanoparticles. <i>Journal of Physics: Conference Series</i> , 2013 , 429, 012052	0.3	3
14	New process for the preparation of pigment-coated phosphors on the base of electroacoustic characterization. <i>Journal of the European Ceramic Society</i> , 2002 , 22, 1667-1672	6	3
13	Growth of piezoelectric thin films with fine grain microstructure by high energy pulsed laser deposition. <i>Sensors and Actuators A: Physical</i> , 1999 , 74, 35-40	3.9	3
12	Photocatalytic Oxidation of HMF under Solar Irradiation: Coupling of Microemulsion and Lyophilization to Obtain Innovative TiO-Based Materials. <i>Molecules</i> , 2020 , 25,	4.8	3
11	Monitoring Systems of an Electrospinning Plant for the Production of Composite Nanofibers 2019 , 315-337		2
10	Use of single particle ICP-MS to estimate silver nanoparticle penetration through baby porcine mucosa. <i>Nanotoxicology</i> , 2021 , 15, 1005-1015	5.3	2
9	Electrochemical detection of copper ions leached from CuO nanoparticles in saline buffers and biological media using a gold wire working electrode. <i>Journal of Nanoparticle Research</i> , 2016 , 18, 1	2.3	2
8	TiO@BSA nano-composites investigated through orthogonal multi-techniques characterization platform. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021 , 207, 112037	6	2
7	Use of Cotton Textiles Coated by Ir(III) Tetrazole Complexes within Ceramic Silica Nanophases for Photo-Induced Self-Marker and Antibacterial Application. <i>Nanomaterials</i> , 2020 , 10,	5.4	1
6	Spray-Drying Derived Lead Magnesium Niobate Perovskite Ceramics. <i>Key Engineering Materials</i> , 2001 , 206-213, 171-174	0.4	1
5	Ceramized Fabrics and Their Integration in a Semi-Pilot Plant for the Photodegradation of Water Pollutants. <i>Catalysts</i> , 2021 , 11, 1418	4	1
4	Digital Twins applied to the implementation of Safe-by-Design strategies in nano-processes for the reduction of airborne emission and occupational exposure to nano-forms. <i>Journal of Physics: Conference Series</i> , 2021 , 1953, 012010	0.3	1
3	Interparticle attraction controls flow heterogeneity in calcite gels. <i>Soft Matter</i> , 2020 , 16, 9217-9229	3.6	0
2	Improvement of Piezoelectric Properties through Post Hipping. <i>Key Engineering Materials</i> , 2004 , 264-268, 1365-1368	0.4	
1	Quantifying uncertainty in dose-response screenings of nanoparticles: a Bayesian data analysis.. <i>Nanotoxicology</i> , 2022 , 1-17	5.3	

