

Ilaria Cacciotti

List of Publications by Year in descending order

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120
papers

5,146
citations

81743

39
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106150

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124
all docs

124
docs citations

124
times ranked

6395
citing authors

#	ARTICLE	IF	CITATIONS
1	Improving the integrity of natural biopolymer films used in food packaging by crosslinking approach: A review. <i>International Journal of Biological Macromolecules</i> , 2017, 104, 687-707.	3.6	378
2	Biodegradable zein film composites reinforced with chitosan nanoparticles and cinnamon essential oil: Physical, mechanical, structural and antimicrobial attributes. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 177, 25-32.	2.5	313
3	Mg-substituted hydroxyapatite nanopowders: Synthesis, thermal stability and sintering behaviour. <i>Journal of the European Ceramic Society</i> , 2009, 29, 2969-2978.	2.8	220
4	Sol-gel derived 45S5 bioglass: synthesis, microstructural evolution and thermal behaviour. <i>Journal of Materials Science: Materials in Medicine</i> , 2012, 23, 1849-1866.	1.7	131
5	A comprehensive review on the nanocomposites loaded with chitosan nanoparticles for food packaging. <i>Critical Reviews in Food Science and Nutrition</i> , 2022, 62, 1383-1416.	5.4	131
6	Si-substituted hydroxyapatite nanopowders: Synthesis, thermal stability and sinterability. <i>Materials Research Bulletin</i> , 2009, 44, 345-354.	2.7	117
7	F-substituted hydroxyapatite nanopowders: Thermal stability, sintering behaviour and mechanical properties. <i>Ceramics International</i> , 2010, 36, 313-322.	2.3	114
8	Effect of silver nanoparticles and cellulose nanocrystals on electrospun poly(lactic) acid mats: Morphology, thermal properties and mechanical behavior. <i>Carbohydrate Polymers</i> , 2014, 103, 22-31.	5.1	114
9	Bivalent cationic ions doped bioactive glasses: the influence of magnesium, zinc, strontium and copper on the physical and biological properties. <i>Journal of Materials Science</i> , 2017, 52, 8812-8831.	1.7	114
10	Screen-Printed Electrodes Modified with Carbon Nanomaterials: A Comparison among Carbon Black, Carbon Nanotubes and Graphene. <i>Electroanalysis</i> , 2015, 27, 2230-2238.	1.5	112
11	Eco-sustainable systems based on poly(lactic acid), diatomite and coffee grounds extract for food packaging. <i>International Journal of Biological Macromolecules</i> , 2018, 112, 567-575.	3.6	94
12	Synthesis, thermal behaviour and luminescence properties of rare earth-doped titania nanofibers. <i>Chemical Engineering Journal</i> , 2011, 166, 751-764.	6.6	92
13	Tuning Multi/Pluri-Potent Stem Cell Fate by Electrospun Poly(lactic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 262 T	2.6	88
14	Screen-printed biosensor modified with carbon black nanoparticles for the determination of paraoxon based on the inhibition of butyrylcholinesterase. <i>Mikrochimica Acta</i> , 2015, 182, 643-651.	2.5	88
15	Multisubstituted hydroxyapatite powders and coatings: The influence of the codoping on the hydroxyapatite performances. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 1864-1884.	1.1	84
16	Chitosan/clay nanocomposite films as supports for enzyme immobilization: An innovative green approach for winemaking applications. <i>Food Hydrocolloids</i> , 2018, 74, 124-131.	5.6	79
17	Thermal stability and sintering behaviour of hydroxyapatite nanopowders. <i>Journal of Thermal Analysis and Calorimetry</i> , 2007, 88, 237-243.	2.0	74
18	Electrospun PHBV/PEO co-solution blends: Microstructure, thermal and mechanical properties. <i>Materials Science and Engineering C</i> , 2013, 33, 1067-1077.	3.8	74

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19	Inside the different types of carbon black as nanomodifiers for screen-printed electrodes. <i>Electrochimica Acta</i> , 2019, 317, 673-683.	2.6	70
20	High thermally stable Mg-substituted tricalcium phosphate via precipitation. <i>Ceramics International</i> , 2011, 37, 127-137.	2.3	66
21	Electroanalysis moves towards paper-based printed electronics: carbon black nanomodified inkjet-printed sensor for ascorbic acid detection as a case study. <i>Sensors and Actuators B: Chemical</i> , 2018, 265, 155-160.	4.0	66
22	Novel carbon black-cobalt phthalocyanine nanocomposite as sensing platform to detect organophosphorus pollutants at screen-printed electrode. <i>Electrochimica Acta</i> , 2016, 188, 574-581.	2.6	64
23	Biodegradability, physical, mechanical and antimicrobial attributes of starch nanocomposites containing chitosan nanoparticles. <i>International Journal of Biological Macromolecules</i> , 2022, 195, 49-58.	3.6	63
24	Bioactive, nanostructured S-substituted hydroxyapatite coatings on titanium prepared by pulsed laser deposition. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015, 103, 1621-1631.	1.6	62
25	Super-hydrophobic multi-walled carbon nanotube coatings for stainless steel. <i>Nanotechnology</i> , 2015, 26, 145701.	1.3	58
26	Injectable silk fibroin hydrogels functionalized with microspheres as adult stem cells-carrier systems. <i>International Journal of Biological Macromolecules</i> , 2018, 108, 960-971.	3.6	57
27	Hydrogen Sulfide-Releasing Fibrous Membranes: Potential Patches for Stimulating Human Stem Cells Proliferation and Viability under Oxidative Stress. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2368.	1.8	57
28	Core-shell Zn-doped TiO ₂ -ZnO nanofibers fabricated via a combination of electrospinning and metal-organic chemical vapour deposition. <i>CrystEngComm</i> , 2010, 12, 3858.	1.3	53
29	Carbon black assisted tailoring of Prussian Blue nanoparticles to tune sensitivity and detection limit towards H ₂ O ₂ by using screen-printed electrode. <i>Electrochemistry Communications</i> , 2014, 47, 63-66.	2.3	53
30	Multi-Fractal Hierarchy of Single-Walled Carbon Nanotube Hydrophobic Coatings. <i>Scientific Reports</i> , 2015, 5, 8583.	1.6	53
31	Cationic and Anionic Substitutions in Hydroxyapatite. , 2016, , 145-211.		53
32	Carbon Black-Modified Electrodes Screen-Printed onto Paper Towel, Waxed Paper and Parafilm M [®] . <i>Sensors</i> , 2017, 17, 2267.	2.1	52
33	Electrospun poly(ϵ -caprolactone)-based composites using synthesized tricalcium phosphate. <i>Polymers for Advanced Technologies</i> , 2011, 22, 1832-1841.	1.6	48
34	Differentiation of osteoblast and osteoclast precursors on pure and silicon-substituted synthesized hydroxyapatites. <i>Biomedical Materials (Bristol)</i> , 2012, 7, 055001.	1.7	48
35	Fe-doped hydroxyapatite coatings for orthopedic and dental implant applications. <i>Applied Surface Science</i> , 2014, 307, 301-305.	3.1	46
36	Mg- and/or Sr-doped tricalcium phosphate/bioactive glass composites: Synthesis, microstructure and biological responsiveness. <i>Materials Science and Engineering C</i> , 2014, 42, 312-324.	3.8	43

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37	Wireless implantable and biodegradable sensors for postsurgery monitoring: current status and future perspectives. <i>Nanotechnology</i> , 2020, 31, 252001.	1.3	42
38	Biochar from Brewersâ€™ Spent Grain: A Green and Low-Cost Smart Material to Modify Screen-Printed Electrodes. <i>Biosensors</i> , 2019, 9, 139.	2.3	41
39	Controlled release of 18- α -glycyrrhetic acid by nanodelivery systems increases cytotoxicity on oral carcinoma cell line. <i>Nanotechnology</i> , 2018, 29, 285101.	1.3	40
40	Encapsulation of Bioactive Compounds from Aloe Vera Agrowastes in Electrospun Poly (Ethylene Terephthalate) Nanofibers. <i>Journal of Membrane Science</i> , 2019, 582, 105-115.	2.0	40
41	From nanospheres to microribbons: Self-assembled Eosin Y doped PMMA nanoparticles as photonic crystals. <i>Journal of Colloid and Interface Science</i> , 2014, 414, 24-32.	5.0	39
42	Record efficiency of air-stable multi-walled carbon nanotube/silicon solar cells. <i>Carbon</i> , 2016, 101, 226-234.	5.4	39
43	Screen-printed electrode modified with carbon black and chitosan: a novel platform for acetylcholinesterase biosensor development. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 7299-7309.	1.9	38
44	Terbium and ytterbium-doped titania luminescent nanofibers by means of electrospinning technique. <i>Materials Chemistry and Physics</i> , 2011, 126, 532-541.	2.0	37
45	Nanostructured Si-substituted hydroxyapatite coatings for biomedical applications. <i>Thin Solid Films</i> , 2013, 543, 167-170.	0.8	37
46	Clay/chitosan biocomposite systems as novel green carriers for covalent immobilization of food enzymes. <i>Journal of Materials Research and Technology</i> , 2019, 8, 3644-3652.	2.6	37
47	Eu-Doped Titania Nanofibers: Processing, Thermal Behaviour and Luminescent Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 5183-5190.	0.9	36
48	A Comparative Study between Melt-Derived and Sol-Gel Synthesized 45S5 Bioactive Glasses. <i>Key Engineering Materials</i> , 0, 541, 15-30.	0.4	36
49	Chitosan beads from microbial and animal sources as enzyme supports for wine application. <i>Food Hydrocolloids</i> , 2016, 61, 191-200.	5.6	36
50	Porous wollastonite-hydroxyapatite bioceramics from a preceramic polymer and micro- or nano-sized fillers. <i>Journal of the European Ceramic Society</i> , 2012, 32, 399-408.	2.8	33
51	Bromelain immobilization on microbial and animal source chitosan films, plasticized with glycerol, for application in wine-like medium: Microstructural, mechanical and catalytic characterisations. <i>Food Hydrocolloids</i> , 2015, 45, 41-47.	5.6	33
52	Different strategies to reinforce the milk protein-based packaging composites. <i>Trends in Food Science and Technology</i> , 2022, 123, 1-14.	7.8	32
53	Strategies to improve ellagic acid bioavailability: from natural or semisynthetic derivatives to nanotechnological approaches based on innovative carriers. <i>Nanotechnology</i> , 2020, 31, 382001.	1.3	30
54	Spray dried nanoemulsions loaded with curcumin, resveratrol, and borage seed oil: The role of two different modified starches as encapsulating materials. <i>International Journal of Biological Macromolecules</i> , 2021, 186, 820-828.	3.6	30

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55	Diatom frustules decorated with zinc oxide nanoparticles for enhanced optical properties. <i>Nanotechnology</i> , 2017, 28, 375704.	1.3	29
56	Multi-enzymatic Systems Immobilized on Chitosan Beads for Pomegranate Juice Treatment in Fluidized Bed Reactor: Effect on Haze-Active Molecules and Chromatic Properties. <i>Food and Bioprocess Technology</i> , 2019, 12, 1559-1572.	2.6	28
57	A completely green approach to the synthesis of dendritic silver nanostructures starting from white grape pomace as a potential nanofactory. <i>Arabian Journal of Chemistry</i> , 2019, 12, 597-609.	2.3	27
58	Improvement efficiency of the of poly (ether-block-amide) -Cellulose acetate (Pebax-CA) blend by the addition of nanoparticles (MIL-53 and NH2-MIL-53): A molecular dynamics study. <i>Journal of Polymer Research</i> , 2021, 28, 1.	1.2	27
59	Bioactive glass-ceramic coatings prepared by pulsed laser deposition from RKKP targets (sol-gel vs Tj ETQq1 1,0.784314rgBT /Qv	2.7	25
60	Photoacoustic Spectroscopy Investigation of Zinc Oxide/Diatom Frustules Hybrid Powders. <i>International Journal of Thermophysics</i> , 2018, 39, 1.	1.0	25
61	Design and development of advanced BaTiO3/MWCNTs/PVDF multi-layered systems for microwave applications. <i>Composite Structures</i> , 2019, 224, 111075.	3.1	25
62	Tailoring the properties of electrospun PHBV mats: Co-solution blending and selective removal of PEO. <i>European Polymer Journal</i> , 2013, 49, 3210-3222.	2.6	24
63	In situ temperature sensing with fluorescent chitosan-coated PNIPAAm/alginate beads. <i>Journal of Materials Science</i> , 2017, 52, 12506-12512.	1.7	24
64	Synchronized extraction and purification of L-lactic acid from fermentation broth by emulsion liquid membrane technique. <i>Journal of Dispersion Science and Technology</i> , 2018, 39, 1291-1299.	1.3	24
65	Reusable optical multi-plate sensing system for pesticide detection by using electrospun membranes as smart support for acetylcholinesterase immobilisation. <i>Materials Science and Engineering C</i> , 2020, 111, 110744.	3.8	24
66	A Comprehensive Review of the Composition, Nutritional Value, and Functional Properties of Camel Milk Fat. <i>Foods</i> , 2021, 10, 2158.	1.9	24
67	Starch-Polyvinyl Alcohol-Based Films Reinforced with Chitosan Nanoparticles: Physical, Mechanical, Structural, Thermal and Antimicrobial Properties. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 1111.	1.3	24
68	RBP1 bioactive glass-ceramic films obtained by Pulsed Laser Deposition. <i>Materials Letters</i> , 2016, 175, 195-198.	1.3	23
69	Structure and composition of electrospun titania nanofibres doped with Eu. <i>Surface and Interface Analysis</i> , 2010, 42, 572-575.	0.8	22
70	Recovery of Manganese Ions from Aqueous Solutions with Cyanex 272 Using Emulsion Liquid Membrane Technique: A Design of Experiment Study. <i>Journal of Sustainable Metallurgy</i> , 2021, 7, 1074-1090.	1.1	22
71	Impact of cold atmospheric plasma on microbial safety, total phenolic and flavonoid contents, antioxidant activity, volatile compounds, surface morphology, and sensory quality of green tea powder. <i>Food Bioscience</i> , 2021, 44, 101348.	2.0	22
72	Spectral properties of self-assembled polystyrene nanospheres photonic crystals doped with luminescent dyes. <i>Optical Materials</i> , 2013, 35, 1538-1543.	1.7	21

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73	Development of a transparent hydrorepellent modified SiO ₂ coatings for glazed sanitarywares. <i>Materials Chemistry and Physics</i> , 2014, 146, 240-252.	2.0	21
74	Single walled carbon nanotube/Si heterojunctions for high responsivity photodetectors. <i>Nanotechnology</i> , 2017, 28, 435201.	1.3	21
75	Screen-printed electrode as a cost-effective and miniaturized analytical tool for corrosion monitoring of reinforced concrete. <i>Electrochemistry Communications</i> , 2019, 98, 69-72.	2.3	21
76	Controlling the thickness of carbon nanotube random network films by the estimation of the absorption coefficient. <i>Carbon</i> , 2015, 95, 28-33.	5.4	20
77	Neuro-differentiated Ntera2 cancer stem cells encapsulated in alginate beads: First evidence of biological functionality. <i>Materials Science and Engineering C</i> , 2017, 81, 32-38.	3.8	20
78	Cold atmospheric pressure plasma treatment of turmeric powder: microbial load, essential oil profile, bioactivity and microstructure analyses. <i>International Journal of Food Science and Technology</i> , 2021, 56, 2224-2232.	1.3	20
79	Thermal treatment alternatives for enzymes inactivation in fruit juices: Recent breakthroughs and advancements. <i>Ultrasonics Sonochemistry</i> , 2022, 86, 105999.	3.8	20
80	Applications of three-dimensional carbon nanotube networks. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 792-798.	1.5	19
81	RKKP bioactive glass-ceramic material through an aqueous sol-gel process. <i>Ceramics International</i> , 2015, 41, 3371-3380.	2.3	19
82	Neat and GNPs loaded natural rubber fibers by electrospinning: Manufacturing and characterization. <i>Materials and Design</i> , 2015, 88, 1109-1118.	3.3	19
83	Papain Covalently Immobilized on Chitosan-Clay Nanocomposite Films: Application in Synthetic and Real White Wine. <i>Nanomaterials</i> , 2020, 10, 1622.	1.9	19
84	Tuning the Physicochemical, Structural, and Antimicrobial Attributes of Whey-Based Poly (L-Lactic) Tj ETQq0 0 0 rgBTj/Overlock 10 Tf 50	1.6	19
85	Biosynthesis of innovative calcium phosphate/hydrogel composites: physicochemical and biological characterisation. <i>Nanotechnology</i> , 2021, 32, 095102.	1.3	18
86	Interdisciplinary approach to cell-biomaterial interactions: biocompatibility and cell friendly characteristics of RKKP glass-ceramic coatings on titanium. <i>Biomedical Materials (Bristol)</i> , 2015, 10, 035005.	1.7	16
87	Innovative polyetherimide and diatomite based composites: influence of the diatomite kind and treatment. <i>Journal of Materials Research and Technology</i> , 2019, 8, 1737-1745.	2.6	16
88	Cisplatin uptake and release assessment from hydrogel synthesized in acidic and neutral medium: An experimental and molecular dynamics simulation study. <i>Journal of Molecular Liquids</i> , 2021, 344, 117890.	2.3	16
89	Targeting foodborne pathogens via surface-functionalized nano-antimicrobials. <i>Advances in Colloid and Interface Science</i> , 2022, 302, 102622.	7.0	16
90	Innovative Al-Ni-Ir alloy for bond coats: Microstructure, phase analysis and oxidation behaviour. <i>Intermetallics</i> , 2012, 22, 241-250.	1.8	15

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91	AP40 Bioactive Glass Ceramic by Sol-Gel Synthesis: <i>In Vitro</i> Dissolution and Cell-Mediated Bioresorption. Key Engineering Materials, 0, 541, 41-50.	0.4	15
92	Novel processing of bioglass ceramics from silicone resins containing micro- and nano-sized oxide particle fillers. Journal of Biomedical Materials Research - Part A, 2014, 102, 2502-2510.	2.1	15
93	Impact of Incorporating the Aqueous Extract of Hawthorn (C. oxyanatha) Leaves on Yogurt Properties and Its Therapeutic Effects against Oxidative Stress Induced by Carbon Tetrachloride in Rats. Fermentation, 2022, 8, 200.	1.4	15
94	Silicon-substituted hydroxyapatite for biomedical applications. , 2015, , 343-373.		14
95	Versatile hydrogels: an efficient way to clean paper artworks. RSC Advances, 2013, 3, 22896.	1.7	13
96	Poly(lactic) acid fibers loaded with mesoporous silica for potential applications in the active food packaging. AIP Conference Proceedings, 2016, , .	0.3	13
97	One-pot preparation of surface-functionalized barium titanate nanoparticles for high-K polystyrene composite films prepared via floating method. Journal of Materials Science, 2018, 53, 11343-11354.	1.7	13
98	Exploiting the hierarchical morphology of single-walled and multi-walled carbon nanotube films for highly hydrophobic coatings. Beilstein Journal of Nanotechnology, 2015, 6, 353-360.	1.5	12
99	Microwave-assisted synthesis of catalytic silver nanoparticles by hyperpigmented tomato skins: A green approach. LWT - Food Science and Technology, 2020, 133, 110088.	2.5	12
100	Bioprinting Technology in Skin, Heart, Pancreas and Cartilage Tissues: Progress and Challenges in Clinical Practice. International Journal of Environmental Research and Public Health, 2021, 18, 10806.	1.2	11
101	Influence of organic modified silica coatings on the tribological properties of elastomeric compounds. Wear, 2019, 434-435, 202987.	1.5	10
102	Effects of Humidity, Temperature and Bismuth Electrodeposition on Electroanalytical Performances of Nafion-coated Printed Electrodes for Cd ²⁺ and Pb ²⁺ Detection. Electroanalysis, 2020, 32, 345-357.	1.5	10
103	Mo-doped indium oxide films by dip-coating: Synthesis, microstructure and optical properties. Ceramics International, 2014, 40, 1851-1858.	2.3	9
104	Improvement of the shadow tracking setup as a method to measure the velocities values of dark dust in order to reduce the risks of radioactive releases or explosions. Review of Scientific Instruments, 2018, 89, 083306.	0.6	9
105	Influence of diverse natural biopolymers on the physicochemical characteristics of borage seed oil-peppermint oil loaded W/O/W nanoemulsions entrapped with lycopene. Nanotechnology, 2021, 32, 505302.	1.3	9
106	Influence of Iron Catalyst in the Carbon Spheres Synthesis for Energy and Electrochemical Applications. Advanced Materials Interfaces, 2018, 5, 1800070.	1.9	8
107	Cationic and Anionic Substitutions in Hydroxyapatite. , 2015, , 1-68.		7
108	Additive manufacturing of reconstruction devices for maxillofacial surgery: design and accuracy assessment of a mandibular plate prototype. Annali Dell'Istituto Superiore Di Sanita, 2020, 56, 10-18.	0.2	7

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109	Ternary systems based on PVDF, BaTiO ₃ and MWCNTs: Fabrication, characterization, electromagnetic simulation. AIP Conference Proceedings, 2015, , .	0.3	6
110	Personalized Bone Reconstruction and Regeneration in the Treatment of Craniosynostosis. Applied Sciences (Switzerland), 2021, 11, 2649.	1.3	6
111	Effect of co-fermentation system with isolated new yeasts on soymilk: microbiological, physicochemical, rheological, aromatic, and sensory characterizations. Brazilian Journal of Microbiology, 2022, 53, 1549-1564.	0.8	5
112	Application of nano/microencapsulated ingredients in chewing gum. , 2021, , 345-386.		3
113	Mesoporous Nano-Sized BiFeVO _{x,y} Phases for Removal of Organic Dyes from Wastewaters by Visible Light Photocatalytic Degradation. Nanomaterials, 2022, 12, 1383.	1.9	3
114	Chemical and molecular examinations of some cowpea genotypes using simple sequence repeat and intersimple sequence repeat DNA markers in relation to their cooking quality. Food Science and Nutrition, 2021, 9, 4298-4309.	1.5	2
115	Production of Synthetic Models for Neuro-Oncology Training by Additive Manufacturing. Applied Sciences (Switzerland), 2021, 11, 11823.	1.3	2
116	A Comparative Study of Milk Fat Extracted from the Milk of Different Goat Breeds in China: Fatty Acids, Triacylglycerols and Thermal and Spectroscopic Characterization. Biomolecules, 2022, 12, 730.	1.8	2
117	â€ˆG.A.T.â€™: Gap analysis for TTX evaluation. AIP Conference Proceedings, 2016, , .	0.3	1
118	Chemical Vapor Deposition: Influence of Iron Catalyst in the Carbon Spheres Synthesis for Energy and Electrochemical Applications (Adv. Mater. Interfaces 16/2018). Advanced Materials Interfaces, 2018, 5, 1870080.	1.9	0
119	Acknowledgement to Reviewers of Journal of Functional Biomaterials in 2019. Journal of Functional Biomaterials, 2020, 11, 6.	1.8	0
120	Pure And Substituted Hydroxyapatite Nanopowders By Precipitation. , 0, , 65-74.		0