Annalisa Aluigi

List of Publications by Year in descending order

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66 papers	2,803 citations	186209 28 h-index	182361 51 g-index
67 all docs	67 docs citations	67 times ranked	2952 citing authors

#	Article	IF	Citations
1	Study on the structure and properties of wool keratin regenerated from formic acid. International Journal of Biological Macromolecules, 2007, 41, 266-273.	3.6	220
2	Study of Methylene Blue adsorption on keratin nanofibrous membranes. Journal of Hazardous Materials, 2014, 268, 156-165.	6.5	167
3	Structure and properties of keratin/PEO blend nanofibres. European Polymer Journal, 2008, 44, 2465-2475.	2.6	159
4	Characterisation of keratin biomass from butchery and wool industry wastes. Journal of Molecular Structure, 2009, 938, 35-40.	1.8	136
5	Electrospinning of keratin/poly(ethylene oxide)blend nanofibers. Journal of Applied Polymer Science, 2007, 104, 863-870.	1.3	126
6	Adsorption of copper(II) ions by keratin/PA6 blend nanofibres. European Polymer Journal, 2011, 47, 1756-1764.	2.6	107
7	Thermal and structural characterization of poly(ethylene-oxide)/keratin blend films. Journal of Thermal Analysis and Calorimetry, 2007, 89, 601-608.	2.0	103
8	Study on the Conversion of Wool Keratin by Steam Explosion. Biomacromolecules, 2006, 7, 3499-3504.	2.6	99
9	Study on Cast Membranes and Electrospun Nanofibers Made from Keratin/Fibroin Blends. Biomacromolecules, 2008, 9, 2819-2825.	2.6	93
10	Antibacterial efficacy of polypyrrole in textile applications. Fibers and Polymers, 2013, 14, 36-42.	1.1	82
11	Multifunctional cotton fabrics. Synthetic Metals, 2009, 159, 1082-1089.	2.1	80
12	Electrospun Porous Mats for High Efficiency Filtration. Journal of Industrial Textiles, 2007, 37, 151-162.	1.1	78
13	Composite biomaterials from fibre wastes: Characterization of woolâ€“cellulose acetate blends. Composites Part A: Applied Science and Manufacturing, 2008, 39, 126-132.	3.8	77
14	Microwave-assisted chemical-free hydrolysis of wool keratin. Textile Reseach Journal, 2012, 82, 2006-2018.	1.1	70
15	Wool Keratin-Based Nanofibres for Active Filtration of Air and Water. Journal of Biobased Materials and Bioenergy, 2009, 3, 311-319.	0.1	62
16	Morphological and structural investigation of wool-derived keratin nanofibres crosslinked by thermal treatment. International Journal of Biological Macromolecules, 2013, 57, 30-37.	3.6	57
17	Wool-derived keratin nanofiber membranes for dynamic adsorption of heavy-metal ions from aqueous solutions. Textile Reseach Journal, 2013, 83, 1574-1586.	1.1	56
18	Methylene Blue Doped Films of Wool Keratin with Antimicrobial Photodynamic Activity. ACS Applied Materials & Interfaces, 2015, 7, 17416-17424.	4.0	56

#	Article	IF	Citations
19	Keratin-hydrotalcites hybrid films for drug delivery applications. European Polymer Journal, 2018, 105, 177-185.	2.6	50
20	Keratins extracted from Merino wool and Brown Alpaca fibres as potential fillers for PLLA-based biocomposites. Journal of Materials Science, 2014, 49, 6257-6269.	1.7	48
21	Organic solvent-free preparation of keratin nanoparticles as doxorubicin carriers for antitumour activity. Materials Science and Engineering C, 2018, 90, 476-484.	3.8	48
22	Keratins extracted from Merino wool and Brown Alpaca fibres: Thermal, mechanical and biological properties of PLLA based biocomposites. Materials Science and Engineering C, 2015, 47, 394-406.	3.8	42
23	Nano-hybrid electrospun non-woven mats made of wool keratin and hydrotalcites as potential bio-active wound dressings. Nanoscale, 2019, 11, 6422-6430.	2.8	41
24	Study on the shear viscosity behavior of keratin/PEO blends for nanofibre electrospinning. Journal of Polymer Science, Part B: Polymer Physics, 2008, 46, 1193-1201.	2.4	39
25	Adhesion enhancement of electrospun nanofiber mats to polypropylene nonwoven fabric by low-temperature oxygen plasma treatment. Surface and Coatings Technology, 2013, 216, 178-184.	2.2	39
26	Electrospinning of immiscible systems: The wool keratin/polyamide-6 case study. Materials and Design, 2017, 127, 144-153.	3.3	37
27	Anticancer activity of paclitaxel-loaded keratin nanoparticles in two-dimensional and perfused three-dimensional breast cancer models. International Journal of Nanomedicine, 2018, Volume 13, 4847-4867.	3.3	33
28	Regenerated keratin proteins as potential biomaterial for drug delivery. Polymers for Advanced Technologies, 2013, 24, 1025-1028.	1.6	30
29	Study on the Adsorption of Chromium (VI) by Hydrolyzed Keratin/Polyamide 6 Blend Nanofibres. Journal of Nanoscience and Nanotechnology, 2012, 12, 7250-7259.	0.9	29
30	FT-IR study of dopant-wool interactions during PPy deposition. Fibers and Polymers, 2006, 7, 105-111.	1.1	28
31	Regenerated keratin membrane to match the in vitro drug diffusion through human epidermis. Results in Pharma Sciences, 2012, 2, 72-78.	4.2	27
32	Chlorin e6 keratin nanoparticles for photodynamic anticancer therapy. RSC Advances, 2016, 6, 33910-33918.	1.7	27
33	Developing keratin sponges with tunable morphologies and controlled antioxidant properties induced by doping with polydopamine (PDA) nanoparticles. Materials and Design, 2016, 110, 475-484.	3.3	27
34	Thermoanalytical characterisation of modified keratin fibres. Journal of Thermal Analysis and Calorimetry, 2004, 77, 987-996.	2.0	25
35	Polydopamine Nanoparticle-Coated Polysulfone Porous Granules as Adsorbents for Water Remediation. ACS Omega, 2019, 4, 4839-4847.	1.6	25
36	Regenerated wool keratin-polybutylene succinate nanofibrous mats for drug delivery and cells culture. Polymer Degradation and Stability, 2020, 179, 109272.	2.7	25

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37	Effects of the Blending Ratio on the Design of Keratin/Poly(butylene succinate) Nanofibers for Drug Delivery Applications. Biomolecules, 2021, 11, 1194.	1.8	22
38	Wool Keratin Nanofibres for Copper(II) Adsorption. Journal of Biobased Materials and Bioenergy, 2012, 6, .	0.1	21
39	Wool Keratin 3D Scaffolds with Light-Triggered Antimicrobial Activity. Biomacromolecules, 2016, 17, 2882-2890.	2.6	21
40	Keratin Film as Natural and Ecoâ€Friendly Support for Organic Optoelectronic Devices. Advanced Sustainable Systems, 2019, 3, 1900080.	2.7	19
41	Extraction and Characterization of Keratin from Different Biomasses. Springer Series on Polymer and Composite Materials, 2019, , 35-76.	0.5	18
42	Electrospinning of polyamide 6/modified-keratin blends. E-Polymers, 2007, 7, .	1.3	17
43	Engineering of keratin functionality for the realization of bendable all-biopolymeric micro-electrode array as humidity sensor. Biosensors and Bioelectronics, 2019, 141, 111480.	5.3	17
44	Keratin-based Nanofibres. , 0, , .		15
45	Optically activated and interrogated plasmonic hydrogels for applications in wound healing. Journal of Biophotonics, 2020, 13, e202000135.	1.1	15
46	Magnetic keratin/hydrotalcites sponges as potential scaffolds for tissue regeneration. Applied Clay Science, 2021, 207, 106090.	2.6	15
47	Effect of processing techniques on the 3<scp>D</scp> microstructure of poly (<scp>l</scp>â€lactic) Tj ETQq1 1 0.784314 rgBT /Ove Science, 2015, 132, .	1.3	14
48	Unprecedented Behavior of (9R)-9-Hydroxystearic Acid-Loaded Keratin Nanoparticles on Cancer Cell Cycle. Molecular Pharmaceutics, 2019, 16, 931-942.	2.3	14
49	Immunological method for the identification of animal hair fibres. Textile Reseach Journal, 2012, 82, 766-772.	1.1	13
50	Keratin/Hydrotalcites Hybrid Sponges as Promising Adsorbents for Cationic and Anionic Dyes. Frontiers in Bioengineering and Biotechnology, 2020, 8, 68.	2.0	11
51	Mild and Effective Polymerization of Dopamine on Keratin Films for Innovative Photoactivable and Biocompatible Coated Materials. Macromolecular Materials and Engineering, 2018, 303, 1700653.	1.7	10
52	Bio-Composite Keratin Films from Wool Fibrillation. Journal of Biobased Materials and Bioenergy, 2011, 5, 124-131.	0.1	10
53	Non-coincidence effect and orientational dynamics in aromatic molecules. Molecular Physics, 2002, 100, 3677-3690.	0.8	9
54	Biocompatible PBS-based copolymer for soft tissue engineering: Introduction of disulfide bonds as winning tool to tune the final properties. Polymer Degradation and Stability, 2020, 182, 109403.	2.7	9

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55	Bioactive Keratin and Fibroin Nanoparticles: An Overview of Their Preparation Strategies. Nanomaterials, 2022, 12, 1406.	1.9	9
56	Keratin/Polylactic acid/graphene oxide composite nanofibers for drug delivery. International Journal of Pharmaceutics, 2022, 623, 121888.	2.6	9
57	A modeling study by artificial neural network on ethidium bromide adsorption optimization using natural pumice and iron-coated pumice. Desalination and Water Treatment, 2016, 57, 13472-13483.	1.0	8
58	Intercalation of Bioactive Molecules into Nanosized ZnAl Hydrotalcites for Combined Chemo and Photo Cancer Treatment. ACS Applied Nano Materials, 2018, 1, 6387-6397.	2.4	8
59	Photopolymerization of keratin-based thiol-ene coatings. Progress in Organic Coatings, 2014, 77, 1104-1110.	1.9	6
60	Effect of Chemically Engineered Au/Ag Nanorods on the Optical and Mechanical Properties of Keratin Based Films. Frontiers in Chemistry, 2020, 8, 158.	1.8	6
61	Enhancing triboelectric performances of electrospun poly(vinylidene fluoride) with graphene oxide sheets. Graphene Technology, 2020, 5, 49-57.	1.9	5
62	Removal of Cu(II) ions from water using thermally-treated hornâ€“hoof powder as biosorbent. Desalination and Water Treatment, 2015, 55, 1105-1115.	1.0	3
63	Raman spectroscopic characterisation of photo-active keratin doped with Methylene Blue for wound dressings and tissue engineering. Biomedical Spectroscopy and Imaging, 2016, 5, 207-215.	1.2	3
64	Cyanine-Doped Nanofiber Mats for Laser Tissue Bonding. Nanomaterials, 2022, 12, 1613.	1.9	1
65	Eco-Sustainable Silk Fibroin/Pomegranate Peel Extract Film as an Innovative Green Material for Skin Repair. International Journal of Molecular Sciences, 2022, 23, 6805.	1.8	1
66	New materials for laser welding of connective tissue and controlled release of antimicrobial principles. , 2020, , .		0