Athanassia Athanassiou

List of Publications by Year
in descending order

341	12,723	28274 55	46799 89
papers	citations	h-index	g-index

351	351	351	15713
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Magnetically Driven Floating Foams for the Removal of Oil Contaminants from Water. ACS Nano, 2012, 6, 5413-5419.	14.6	574
2	Advanced Materials From Fungal Mycelium: Fabrication and Tuning of Physical Properties. Scientific Reports, 2017, 7, 41292.	3.3	305
3	Infrared and Raman spectroscopic features of plant cuticles: a review. Frontiers in Plant Science, 2014, 5, 305.	3.6	251
4	Making silicon hydrophobic: wettability control by two-lengthscale simultaneous patterning with femtosecond laser irradiation. Nanotechnology, 2006, 17, 3234-3238.	2.6	242
5	All-natural composite wound dressing films of essential oils encapsulated in sodium alginate with antimicrobial properties. International Journal of Pharmaceutics, 2014, 463, 137-145.	5.2	241
6	Magnetite (Fe3O4)-filled carbon nanofibers as electro-conducting/superparamagnetic nanohybrids and their multifunctional polymer composites. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	214
7	Laser Ablation as a Versatile Tool To Mimic Polyethylene Terephthalate Nanoplastic Pollutants: Characterization and Toxicology Assessment. ACS Nano, 2018, 12, 7690-7700.	14.6	208
8	Graphene Nanoplatelets-Based Advanced Materials and Recent Progress in Sustainable Applications. Applied Sciences (Switzerland), 2018, 8, 1438.	2.5	201
9	Toxicity Assessment of Silica Coated Iron Oxide Nanoparticles and Biocompatibility Improvement by Surface Engineering. PLoS ONE, 2014, 9, e85835.	2.5	186
10	A simple approach to covalent functionalization of boron nitride nanotubes. Journal of Colloid and Interface Science, 2012, 374, 308-314.	9.4	176
11	Alginateâ€“lavender nanofibers with antibacterial and anti-inflammatory activity to effectively promote burn healing. Journal of Materials Chemistry B, 2016, 4, 1686-1695.	5.8	162
12	Fibrous wound dressings encapsulating essential oils as natural antimicrobial agents. Journal of Materials Chemistry B, 2015, 3, 1583-1589.	5.8	141
13	Borrowing From Nature: Biopolymers and Biocomposites as Smart Wound Care Materials. Frontiers in Bioengineering and Biotechnology, 2018, 6, 137.	4.1	137
14	Direct Transformation of Edible Vegetable Waste into Bioplastics. Macromolecules, 2014, 47, 5135-5143.	4.8	126
15	Reversibly Lightâ€Switchable Wettability of Hybrid Organic/Inorganic Surfaces With Dual Microâ€/Nanoscale Roughness. Advanced Functional Materials, 2009, 19, 1149-1157.	14.9	115
16	A biocompatible sodium alginate/povidone iodine film enhances wound healing. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 122, 17-24.	4.3	110
17	Environmentally Benign Production of Stretchable and Robust Superhydrophobic Silicone Monoliths. ACS Applied Materials & Interfaces, 2018, 10, 2907-2917.	8.0	107
18	Strain-responsive mercerized conductive cotton fabrics based on PEDOT:PSS/graphene. Materials and Design, 2017, 135, 213-222.	7.0	106

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19	Photocontrolled Variations in the Wetting Capability of Photochromic Polymers Enhanced by Surface Nanostructuring. Langmuir, 2006, 22, 2329-2333.	3.5	103
20	Water-Repellent Cellulose Fiber Networks with Multifunctional Properties. ACS Applied Materials & Interfaces, 2011, 3, 4024-4031.	8.0	103
21	Robust and Biodegradable Elastomers Based on Corn Starch and Polydimethylsiloxane (PDMS). ACS Applied Materials & Interfaces, 2015, 7, 3742-3753.	8.0	101
22	Carbon Nanofiber versus Grapheneâ€Based Stretchable Capacitive Touch Sensors for Artificial Electronic Skin. Advanced Science, 2018, 5, 1700587.	11.2	100
23	Bioplastics from vegetable waste via an eco-friendly water-based process. Green Chemistry, 2018, 20, 894-902.	9.0	99
24	Reversible Wettability Changes in Colloidal TiO₂ Nanorod Thin-Film Coatings under Selective UV Laser Irradiation. Journal of Physical Chemistry C, 2008, 112, 701-714.	3.1	96
25	Controlled antiseptic release by alginate polymer films and beads. Carbohydrate Polymers, 2013, 92, 176-183.	10.2	95
26	Transparent ciprofloxacin-povidone antibiotic films and nanofiber mats as potential skin and wound care dressings. European Journal of Pharmaceutical Sciences, 2017, 104, 133-144.	4.0	95
27	Effects of Cerium Oxide Nanoparticles on PC12 Neuronal-Like Cells: Proliferation, Differentiation, and Dopamine Secretion. Pharmaceutical Research, 2013, 30, 2133-2145.	3.5	90
28	Dynamical Formation of Spatially Localized Arrays of Aligned Nanowires in Plastic Films with Magnetic Anisotropy. ACS Nano, 2010, 4, 1873-1878.	14.6	87
29	All-Optical Reversible Actuation of Photochromic-Polymer Microsystems. Advanced Materials, 2005, 17, 988-992.	21.0	85
30	Environmentally benign non-wettable textile treatments: A review of recent state-of-the-art. Advances in Colloid and Interface Science, 2019, 270, 216-250.	14.7	84
31	Solvent resistant superhydrophobic films from self-emulsifying carnauba waxâ€“alcohol emulsions. Soft Matter, 2011, 7, 7939.	2.7	81
32	Robust water repellent treatment for woven cotton fabrics with eco-friendly polymers. Chemical Engineering Journal, 2017, 319, 321-332.	12.7	81
33	Healable Cottonâ€“Graphene Nanocomposite Conductor for Wearable Electronics. ACS Applied Materials & Interfaces, 2017, 9, 13825-13830.	8.0	81
34	Cocoa Shell Waste Biofilaments for 3D Printing Applications. Macromolecular Materials and Engineering, 2017, 302, 1700219.	3.6	81
35	Surface modification of polymeric foams for oil spills remediation. Journal of Environmental Management, 2018, 206, 872-889.	7.8	77
36	Effect of trifluoroacetic acid on the properties of polyvinyl alcohol and polyvinyl alcoholâ€“cellulose composites. Chemical Engineering Journal, 2015, 277, 242-251.	12.7	76

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37	Starch-based bio-elastomers functionalized with red beetroot natural antioxidant. Food Chemistry, 2017, 216, 324-333.	8.2	76
38	Low-density polyethylene/curcumin melt extruded composites with enhanced water vapor barrier and antioxidant properties for active food packaging. Polymer, 2019, 175, 137-145.	3.8	75
39	Photoswitchable Organic Nanofibers. Advanced Materials, 2008, 20, 314-318.	21.0	74
40	Green Biocomposites for Thermoelectric Wearable Applications. Advanced Functional Materials, 2020, 30, 1907301.	14.9	74
41	Electrospun silk fibroin fibers for storage and controlled release of human platelet lysate. Acta Biomaterialia, 2018, 73, 365-376.	8.3	73
42	Electrospun polyvinylpyrrolidone (PVP) hydrogels containing hydroxycinnamic acid derivatives as potential wound dressings. Chemical Engineering Journal, 2021, 409, 128144.	12.7	73
43	Biobased, Biodegradable, Self-Healing Boronic Ester Vitrimers from Epoxidized Soybean Oil Acrylate. ACS Applied Polymer Materials, 2021, 3, 1135-1144.	4.4	73
44	Biodegradable Films of PLA/PPC and Curcumin as Packaging Materials and Smart Indicators of Food Spoilage. ACS Applied Materials & Interfaces, 2022, 14, 14654-14667.	8.0	73
45	Fabrication of Visible Light-Induced Antibacterial and Self-Cleaning Cotton Fabrics Using Manganese Doped TiO₂ Nanoparticles. ACS Applied Bio Materials, 2018, 1, 1154-1164.	4.6	72
46	Sustainable Active Food Packaging from Poly(lactic acid) and Cocoa Bean Shells. ACS Applied Materials & Interfaces, 2019, 11, 31317-31327.	8.0	71
47	Elastomeric Nanocomposite Foams for the Removal of Heavy Metal Ions from Water. ACS Applied Materials & Interfaces, 2015, 7, 14778-14784.	8.0	69
48	Cutin from agro-waste as a raw material for the production of bioplastics. Journal of Experimental Botany, 2017, 68, 5401-5410.	4.8	69
49	Interfacing superhydrophobic silica nanoparticle films with graphene and thermoplastic polyurethane for wear/abrasion resistance. Journal of Colloid and Interface Science, 2018, 519, 285-295.	9.4	68
50	Acidochromic fibrous polymer composites for rapid gas detection. Journal of Materials Chemistry A, 2017, 5, 339-348.	10.3	66
51	Effect of the porous structure of polymer foams on the remediation of oil spills. Journal Physics D: Applied Physics, 2016, 49, 145601.	2.8	63
52	Hydrophobic treatment of woven cotton fabrics with polyurethane modified aminosilicone emulsions. Applied Surface Science, 2019, 490, 331-342.	6.1	63
53	Transparent and flexible amorphous cellulose-acrylic hybrids. Chemical Engineering Journal, 2016, 287, 196-204.	12.7	62
54	Green Processing Route for Polylactic Acidâ€“Cellulose Fiber Biocomposites. ACS Sustainable Chemistry and Engineering, 2020, 8, 4128-4136.	6.7	61

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55	Design and Characterization of a Nanocomposite Pressure Sensor Implemented in a Tactile Robotic System. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 2967-2975.	4.7	59
56	Antimicrobial, antioxidant, and waterproof RTV silicone-ethyl cellulose composites containing clove essential oil. Carbohydrate Polymers, 2018, 192, 150-158.	10.2	56
57	Thermoplastic cellulose acetate oleate films with high barrier properties and ductile behaviour. Chemical Engineering Journal, 2018, 348, 840-849.	12.7	55
58	Foldable Conductive Cellulose Fiber Networks Modified by Graphene Nanoplateletâ€Bioâ€Based Composites. Advanced Electronic Materials, 2015, 1, 1500224.	5.1	54
59	Superhydrophobic high impact polystyrene (HIPS) nanocomposites with wear abrasion resistance. Chemical Engineering Journal, 2017, 322, 10-21.	12.7	53
60	Graphene and polytetrafluoroethylene synergistically improve the tribological properties and adhesion of nylon 66 coatings. Carbon, 2017, 123, 26-33.	10.3	53
61	Spatially Controlled Surface Energy Traps on Superhydrophobic Surfaces. ACS Applied Materials & Interfaces, 2014, 6, 1036-1043.	8.0	52
62	Nylon 6,6/graphene nanoplatelet composite films obtained from a new solvent. RSC Advances, 2016, 6, 6823-6831.	3.6	52
63	A highly porous solvent free PVDF/expanded graphite foam for oil/water separation. Chemical Engineering Journal, 2019, 372, 1174-1182.	12.7	52
64	Electrically Conductive 2D Material Coatings for Flexible and Stretchable Electronics: A Comparative Review of Graphenes and MXenes. Advanced Functional Materials, 2022, 32, .	14.9	52
65	Fully-sprayed flexible polymer solar cells with a cellulose-graphene electrode. Materials Today Energy, 2018, 7, 105-112.	4.7	51
66	Transparent, UV-blocking, and high barrier cellulose-based bioplastics with naringin as active food packaging materials. International Journal of Biological Macromolecules, 2022, 209, 1985-1994.	7.5	51
67	Spent Coffee Bioelastomeric Composite Foams for the Removal of Pb²⁺ and Hg²⁺ from Water. ACS Sustainable Chemistry and Engineering, 2016, 4, 5495-5502.	6.7	50
68	Allâ€Natural Sustainable Packaging Materials Inspired by Plant Cuticles. Advanced Sustainable Systems, 2017, 1, 1600024.	5.3	50
69	Spanish Broom (Spartium junceum L.) fibers impregnated with vancomycin-loaded chitosan nanoparticles as new antibacterial wound dressing: Preparation, characterization and antibacterial activity. European Journal of Pharmaceutical Sciences, 2017, 99, 105-112.	4.0	50
70	Sustainable Fabrication of Plant Cuticle-Like Packaging Films from Tomato Pomace Agro-Waste, Beeswax, and Alginate. ACS Sustainable Chemistry and Engineering, 2018, 6, 14955-14966.	6.7	50
71	Polyvinylpyrrolidone/hyaluronic acid-based bilayer constructs for sequential delivery of cutaneous antiseptic and antibiotic. Chemical Engineering Journal, 2019, 358, 912-923.	12.7	50
72	Bioresin-based superhydrophobic coatings with reduced bacterial adhesion. Journal of Colloid and Interface Science, 2020, 574, 20-32.	9.4	50

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73	Porous pH natural indicators for acidic and basic vapor sensing. Chemical Engineering Journal, 2021, 403, 126373.	12.7	49
74	In Situ Formation and Size Control of Gold Nanoparticles into Chitosan for Nanocomposite Surfaces with Tailored Wettability. Langmuir, 2012, 28, 3911-3917.	3.5	48
75	Folate-grafted boron nitride nanotubes: Possible exploitation in cancer therapy. International Journal of Pharmaceutics, 2015, 481, 56-63.	5.2	48
76	Alginate Nanofibrous Mats with Adjustable Degradation Rate for Regenerative Medicine. Biomacromolecules, 2015, 16, 936-943.	5.4	48
77	A novel ionic amphiphilic chitosan derivative as a stabilizer of nanoemulsions: Improvement of antimicrobial activity of Cymbopogon citratus essential oil. Colloids and Surfaces B: Biointerfaces, 2017, 152, 385-392.	5.0	48
78	Wettability conversion of colloidal TiO2 nanocrystal thin films with UV-switchable hydrophilicity. Physical Chemistry Chemical Physics, 2009, 11, 3692.	2.8	47
79	Graphene heaters absorb faster. Nature Nanotechnology, 2017, 12, 406-407.	31.5	47
80	Expanded Graphite-Polyurethane Foams for Waterâ€“Oil Filtration. ACS Applied Materials & Interfaces, 2019, 11, 30207-30217.	8.0	47
81	Fine-Tuning of Physicochemical Properties and Growth Dynamics of Mycelium-Based Materials. ACS Applied Bio Materials, 2020, 3, 1044-1051.	4.6	47
82	Polylactic Acidâ€”Lemongrass Essential Oil Nanocapsules with Antimicrobial Properties. Pharmaceuticals, 2016, 9, 42.	3.8	46
83	Super Tough Polylactic Acid Plasticized with Epoxidized Soybean Oil Methyl Ester for Flexible Food Packaging. ACS Applied Polymer Materials, 2021, 3, 5087-5095.	4.4	46
84	Polymeric Hydrogelsâ€”A Promising Platform in Enhancing Water Security for a Sustainable Future. Advanced Materials Interfaces, 2021, 8, 2100580.	3.7	46
85	Multifunctional Bioplastics Inspired by Wood Composition: Effect of Hydrolyzed Lignin Addition to Xylanâ€“Cellulose Matrices. Biomacromolecules, 2020, 21, 910-920.	5.4	45
86	Electrically conductive and high temperature resistant superhydrophobic composite films from colloidal graphite. Journal of Materials Chemistry, 2012, 22, 2057-2062.	6.7	44
87	Photoactivated acidochromic elastomeric films for on demand acidic vapor sensing. Journal of Materials Chemistry A, 2015, 3, 22441-22447.	10.3	44
88	Effect of graphene nano-platelet morphology on the elastic modulus of soft and hard biopolymers. Carbon, 2016, 109, 331-339.	10.3	44
89	Effect of Green Plasticizer on the Performance of Microcrystalline Cellulose/Polylactic Acid Biocomposites. ACS Applied Polymer Materials, 2021, 3, 3071-3081.	4.4	44
90	Functionalized Cellulose Networks for Efficient Oil Removal from Oilâ€“Water Emulsions. Polymers, 2016, 8, 52.	4.5	43

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91	Light Responsive Silk Nanofibers: An Optochemical Platform for Environmental Applications. ACS Applied Materials & Interfaces, 2017, 9, 40707-40715.	8.0	43
92	Advanced mycelium materials as potential self-growing biomedical scaffolds. Scientific Reports, 2021, 11, 12630.	3.3	43
93	All natural cellulose acetateâ€"Lemongrass essential oil antimicrobial nanocapsules. International Journal of Pharmaceutics, 2016, 510, 508-515.	5.2	42
94	Valorization of Tomato Processing by-Products: Fatty Acid Extraction and Production of Bio-Based Materials. Materials, 2018, 11, 2211.	2.9	42
95	Transparent Bioplastic Derived from CO₂-Based Polymer Functionalized with Oregano Waste Extract toward Active Food Packaging. ACS Applied Materials & Interfaces, 2020, 12, 46667-46677.	8.0	42
96	Photochromic Paper Indicators for Acidic Food Spoilage Detection. ACS Omega, 2018, 3, 13484-13493.	3.5	41
97	Photochemical effects in the UV laser ablation of polymers: Implications for laser restoration of painted artworks. Applied Physics A: Materials Science and Processing, 1999, 69, 363-367.	2.3	40
98	Towards excimer-laser-based stereolithography: a rapid process to fabricate rigid biodegradable photopolymer scaffolds. Journal of the Royal Society Interface, 2012, 9, 3017-3026.	3.4	40
99	Superhydrophobic Coatings from Beeswaxâ€inâ€Water Emulsions with Latent Heat Storage Capability. Advanced Materials Interfaces, 2019, 6, 1801782.	3.7	40
100	Superparamagnetic cellulose fiber networks via nanocomposite functionalization. Journal of Materials Chemistry, 2012, 22, 1662-1666.	6.7	39
101	Highly Magneto-Responsive Elastomeric Films Created by a Two-Step Fabrication Process. ACS Applied Materials & Interfaces, 2015, 7, 19112-19118.	8.0	39
102	Platelet lysate embedded scaffolds for skin regeneration. Expert Opinion on Drug Delivery, 2015, 12, 525-545.	5.0	39
103	Cellulosic Graphene Biocomposites for Versatile Highâ€Performance Flexible Electronic Applications. Advanced Electronic Materials, 2016, 2, 1600245.	5.1	39
104	Biomimetic keratin gold nanoparticle-mediated in vitro photothermal therapy on glioblastoma multiforme. Nanomedicine, 2021, 16, 121-138.	3.3	39
105	Avocado Peels and Seeds: Processing Strategies for the Development of Highly Antioxidant Bioplastic Films. ACS Applied Materials & Interfaces, 2021, 13, 38688-38699.	8.0	39
106	Influence of organic solvent on optical and structural properties of ultra-small silicon dots synthesized by UV laser ablation in liquid. Physical Chemistry Chemical Physics, 2012, 14, 15406.	2.8	38
107	Modification of wetting properties of laser-textured surfaces by depositing triboelectrically charged Teflon particles. Colloid and Polymer Science, 2013, 291, 367-373.	2.1	37
108	Facile transformation of FeO/Fe3O4 core-shell nanocubes to Fe3O4 via magnetic stimulation. Scientific Reports, 2016, 6, 33295.	3.3	37

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109	Titanate Fibroin Nanocomposites: A Novel Approach for the Removal of Heavy-Metal Ions from water. ACS Applied Materials & Interfaces, 2018, 10, 651-659.	8.0	37
110	Combining dietary phenolic antioxidants with polyvinylpyrrolidone: transparent biopolymer films based onp-coumaric acid for controlled release. Journal of Materials Chemistry B, 2019, 7, 1384-1396.	5.8	37
111	From fabric to tissue: Recovered wool keratin/polyvinylpyrrolidone biocomposite fibers as artificial scaffold platform. Materials Science and Engineering C, 2020, 116, 111151.	7.3	37
112	3D Photothermal Cryogels for Solar-Driven Desalination. ACS Applied Materials & Interfaces, 2021, 13, 30542-30555.	8.0	37
113	Hydrochromic carbon dots as smart sensors for water sensing in organic solvents. Nanoscale Advances, 2019, 1, 4258-4267.	4.6	36
114	Biodegradable and Insoluble Cellulose Photonic Crystals and Metasurfaces. ACS Nano, 2020, 14, 9502-9511.	14.6	36
115	Light-Controlled Directional Liquid Drop Movement on TiO₂ Nanorods-Based Nanocomposite Photopatterns. Langmuir, 2010, 26, 18557-18563.	3.5	35
116	Antibacterial Melamine Foams Decorated with in Situ Synthesized Silver Nanoparticles. ACS Applied Materials & Interfaces, 2018, 10, 16095-16104.	8.0	35
117	A second life for fruit and vegetable waste: a review on bioplastic films and coatings for potential food protection applications. Green Chemistry, 2022, 24, 4703-4727.	9.0	35
118	Patterned structures ofin situsize controlled CdS nanocrystals in a polymer matrix under UV irradiation. Nanotechnology, 2009, 20, 155302.	2.6	34
119	Low-Cost and Effective Fabrication of Biocompatible Nanofibers from Silk and Cellulose-Rich Materials. ACS Biomaterials Science and Engineering, 2016, 2, 526-534.	5.2	34
120	Self-Cleaning Organic/Inorganic Photo-Sensors. ACS Applied Materials & Interfaces, 2013, 5, 7139-7145.	8.0	33
121	Polymeric Films with Electric and Magnetic Anisotropy Due to Magnetically Assembled Functional Nanofibers. ACS Applied Materials & Interfaces, 2014, 6, 4535-4541.	8.0	33
122	Cellulose-polyhydroxylated fatty acid ester-based bioplastics with tuning properties: Acylation via a mixed anhydride system. Carbohydrate Polymers, 2017, 173, 312-320.	10.2	33
123	Solar-Driven Freshwater Generation from Seawater and Atmospheric Moisture Enabled by a Hydrophilic Photothermal Foam. ACS Applied Materials & Interfaces, 2020, 12, 10307-10316.	8.0	33
124	PET nanoplastics interactions with water contaminants and their impact on human cells. Environmental Pollution, 2021, 271, 116262.	7.5	33
125	Biomimetic Approach for Liquid Encapsulation with Nanofibrillar Cloaks. Langmuir, 2014, 30, 2896-2902.	3.5	32
126	Electrical conductivity enhancement in thermoplastic polyurethane-graphene nanoplatelet composites by stretch-release cycles. Applied Physics Letters, 2017, 110, .	3.3	32

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127	Antibacterial bioelastomers with sustained povidone-iodine release. Chemical Engineering Journal, 2018, 347, 19-26.	12.7	32
128	â€œMagnetic Force Microscopy and Energy Loss Imaging of Superparamagnetic Iron Oxide Nanoparticlesâ€• Scientific Reports, 2011, 1, 202.	3.3	31
129	Bio/non-bio interfaces: A straightforward method for obtaining long term PDMS/muscle cell biohybrid constructs. Colloids and Surfaces B: Biointerfaces, 2013, 105, 144-151.	5.0	31
130	Plant cuticle under global change: Biophysical implications. Global Change Biology, 2018, 24, 2749-2751.	9.5	31
131	Hydroxycinnamic Acids and Derivatives Formulations for Skin Damages and Disorders: A Review. Pharmaceutics, 2021, 13, 999.	4.5	31
132	Thermal and mechanical characterization of poly(methyl methacrylate) nanocomposites filled with TiO2 nanorods. Composites Part B: Engineering, 2012, 43, 3114-3119.	12.0	30
133	PC12 neuron-like cell response to electrospun poly(â€‰3-hydroxybutyrate) substrates. Journal of Tissue Engineering and Regenerative Medicine, 2015, 9, 151-161.	2.7	30
134	Transparent and Robust All-Cellulose Nanocomposite Packaging Materials Prepared in a Mixture of Trifluoroacetic Acid and Trifluoroacetic Anhydride. Nanomaterials, 2019, 9, 368.	4.1	30
135	Graphene morphology effect on the gas barrier, mechanical and thermal properties of thermoplastic polyurethane. Composites Science and Technology, 2020, 200, 108461.	7.8	30
136	The effects of UV laser light radiation on artistsâ€™ pigments. Journal of Cultural Heritage, 2000, 1, S209-S213.	3.3	29
137	Nanochains Formation of Superparamagnetic Nanoparticles. Journal of Physical Chemistry C, 2011, 115, 7249-7254.	3.1	29
138	Effect of solvents on the dynamic viscoelastic behavior of poly(methyl methacrylate) film prepared by solvent casting. Journal of Materials Science, 2011, 46, 5044-5049.	3.7	29
139	Control of the water adhesion on hydrophobic micropillars by spray coating technique. Colloid and Polymer Science, 2013, 291, 401-407.	2.1	29
140	Nanoporous PMMA foams with templated pore size obtained by localized in situ synthesis of nanoparticles and CO2 foaming. Polymer, 2017, 124, 176-185.	3.8	29
141	Photon-induced formation of CdS nanocrystals in selected areas of polymer matrices. Applied Physics Letters, 2007, 91, 153108.	3.3	28
142	Reversibly Photo-Responsive Polymer Surfaces for Controlled Wettability. Journal of Adhesion Science and Technology, 2008, 22, 1853-1868.	2.6	28
143	Zwitterionic Nanofibers of Super-Glue for Transparent and Biocompatible Multi-Purpose Coatings. Scientific Reports, 2015, 5, 14019.	3.3	28
144	Facile production of seaweed-based biomaterials with antioxidant and anti-inflammatory activities. Algal Research, 2017, 27, 1-11.	4.6	28

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145	Enhanced oil removal from water in oil stable emulsions using electrospun nanocomposite fiber mats. RSC Advances, 2018, 8, 7641-7650.	3.6	28
146	Synthesis of water dispersed nanoparticles from different polysaccharides and their application in drug release. Carbohydrate Polymers, 2016, 136, 282-291.	10.2	27
147	Ceria/Gold Nanoparticles in Situ Synthesized on Polymeric Membranes with Enhanced Photocatalytic and Radical Scavenging Activity. ACS Applied Nano Materials, 2018, 1, 5601-5611.	5.0	27
148	Sustainable Electronics Based on Crop Plant Extracts and Graphene: A â€œBioadvantagedâ€•Approach. Advanced Sustainable Systems, 2018, 2, 1800069.	5.3	27
149	Low molecular weight Îµ-caprolactone-p-coumaric acid copolymers as potential biomaterials for skin regeneration applications. PLoS ONE, 2019, 14, e0214956.	2.5	27
150	Optical Gain from the Open Form of a Photochromic Molecule in the Solid State. Journal of Physical Chemistry B, 2006, 110, 4506-4509.	2.6	26
151	Improvement of thermal stability of poly(methyl methacrylate) by incorporation of colloidal TiO2 nanorods. Polymer Degradation and Stability, 2011, 96, 1377-1381.	5.8	26
152	Multi-photon in situ synthesis and patterning of polymer-embedded nanocrystals. Journal of Materials Chemistry, 2012, 22, 9787.	6.7	26
153	Oil removal from waterâ€“oil emulsions using magnetic nanocomposite fibrous mats. RSC Advances, 2016, 6, 71100-71107.	3.6	26
154	Influence of topography of nanofibrous scaffolds on functionality of engineered neural tissue. Journal of Materials Chemistry B, 2018, 6, 930-939.	5.8	26
155	Low-density PMMA/MAM nanocellular polymers using low MAM contents: Production and characterization. Polymer, 2019, 163, 115-124.	3.8	26
156	Comparison of physicochemical, mechanical and antioxidant properties of polyvinyl alcohol films containing green tealeaves waste extracts and discarded balsamic vinegar. Food Packaging and Shelf Life, 2020, 23, 100445.	7.5	26
157	In situ formation of SnO2 nanoparticles on cellulose acetate fibrous membranes for the photocatalytic degradation of organic dyes. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 398, 112599.	3.9	26
158	Multifunctional PDMS polyHIPE filters for oil-water separation and antibacterial activity. Separation and Purification Technology, 2021, 255, 117748.	7.9	26
159	Human recombinant elastin-like protein coatings for muscle cell proliferation and differentiation. Acta Biomaterialia, 2013, 9, 5111-5121.	8.3	25
160	Photochemical synthesis: Effect of UV irradiation on gold nanorods morphology. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 275, 7-11.	3.9	25
161	Bioelastomers Based on Cocoa Shell Waste with Antioxidant Ability. Advanced Sustainable Systems, 2017, 1, 1700002.	5.3	25
162	Understanding the role of MAM molecular weight in the production of PMMA/MAM nanocellular polymers. Polymer, 2018, 153, 262-270.	3.8	25

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163	Au/ZnO Hybrid Nanostructures on Electrospun Polymeric Mats for Improved Photocatalytic Degradation of Organic Pollutants. Water (Switzerland), 2019, 11, 1787.	2.7	25
164	Direct transformation of industrial vegetable waste into bioplastic composites intended for agricultural mulch films. Green Chemistry, 2021, 23, 5956-5971.	9.0	25
165	Smart photochromic gratings with switchable wettability realized by green-light interferometry. Applied Physics Letters, 2006, 88, 203124.	3.3	24
166	Highly Effective Antiadhesive Coatings from pHâ€Modified Waterâ€Dispersed Perfluorinated Acrylic Copolymers: The Case of Vulcanizing Rubber. Advanced Materials Interfaces, 2016, 3, 1600069.	3.7	24
167	Reversible Diffraction Efficiency of Photochromic Polymer Gratings Related to Photoinduced Dimensional Changes. Advanced Functional Materials, 2008, 18, 1617-1623.	14.9	23
168	Rigid biodegradable photopolymer structures of high resolution using deep-UV laser photocuring. Journal of Micromechanics and Microengineering, 2011, 21, 054007.	2.6	23
169	Localized synthesis of gold nanoparticles in anisotropic alginate structures. RSC Advances, 2014, 4, 20449.	3.6	23
170	Fumarate-loaded electrospun nanofibers with anti-inflammatory activity for fast recovery of mild skin burns. Biomedical Materials (Bristol), 2016, 11, 041001.	3.3	23
171	Poly(furfuryl alcohol)-Polycaprolactone Blends. Polymers, 2019, 11, 1069.	4.5	23
172	Water-induced plasticization in vegetable-based bioplastic films: A structural and thermo-mechanical study. Polymer, 2020, 200, 122598.	3.8	23
173	Wearable and self-healable textile-based strain sensors to monitor human muscular activities. Composites Part B: Engineering, 2021, 220, 108969.	12.0	23
174	Bio-based plastic films prepared from potato peels using mild acid hydrolysis followed by plasticization with a polyglycerol. Food Packaging and Shelf Life, 2021, 29, 100707.	7.5	23
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