Olayinka Oderinde

List of Publications by Year
in descending order

69	2,287	201674	223800
papers	citations	27 h-index	46 g-index

70	70	70	3043
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nature-inspired chemistry toward hierarchical superhydrophobic, antibacterial and biocompatible nanofibrous membranes for effective UV-shielding, self-cleaning and oil-water separation. Journal of Hazardous Materials, 2020, 384, 121476.	12.4	240
2	Durable superhydrophobic and superoleophilic electrospun nanofibrous membrane for oil-water emulsion separation. Journal of Colloid and Interface Science, 2018, 532, 12-23.	9.4	157
3	Dual ionic cross-linked double network hydrogel with self-healing, conductive, and force sensitive properties. Polymer, 2018, 144, 111-120.	3.8	125
4	Polysaccharide-templated preparation of mechanically-tough, conductive and self-healing hydrogels. Chemical Engineering Journal, 2018, 334, 2222-2230.	12.7	103
5	Synthesis of Amino-Functionalized Ti-MOF Derived Yolkâ€“Shell and Hollow Heterostructures for Enhanced Photocatalytic Hydrogen Production under Visible Light. ACS Sustainable Chemistry and Engineering, 2019, 7, 4868-4877.	6.7	96
6	Characterization of Xanthan gum-based hydrogel with Fe3+ ions coordination and its reversible sol-gel conversion. Carbohydrate Polymers, 2019, 203, 139-147.	10.2	88
7	Recent advances in heterogeneous catalysis for green biodiesel production by transesterification. Energy Conversion and Management, 2022, 258, 115406.	9.2	82
8	Copper (II) oxide nanozyme based electrochemical cytosensor for high sensitive detection of circulating tumor cells in breast cancer. Journal of Electroanalytical Chemistry, 2018, 812, 1-9.	3.8	76
9	An ultrasensitive electrochemical cytosensor based on the magnetic field assisted binanozymes synergistic catalysis of Fe3O4 nanozyme and reduced graphene oxide/molybdenum disulfide nanozyme. Sensors and Actuators B: Chemical, 2018, 260, 676-684.	7.8	73
10	Nature-inspired creation of a robust free-standing electrospun nanofibrous membrane for efficient oilâ€“water separation. Environmental Science: Nano, 2018, 5, 2909-2920.	4.3	73
11	Hydroxyethyl cellulose-based self-healing hydrogels with enhanced mechanical properties via metal-ligand bond interactions. European Polymer Journal, 2018, 100, 219-227.	5.4	71
12	Self-recoverable and mechanical-reinforced hydrogel based on hydrophobic interaction with self-healable and conductive properties. Chemical Engineering Journal, 2018, 353, 900-910.	12.7	69
13	Planar intercalated copper (II) complex molecule as small molecule enzyme mimic combined with Fe3O4 nanozyme for bienzyme synergistic catalysis applied to the microRNA biosensor. Biosensors and Bioelectronics, 2018, 110, 110-117.	10.1	65
14	Effect of Amino Functionality on the Uptake of Cationic Dye by Titanium-Based Metal Organic Frameworks. Journal of Chemical & Engineering Data, 2017, 62, 1615-1622.	1.9	64
15	Green synthesis of oriented xanthan gumâ€“graphene oxide hybrid aerogels for water purification. Carbohydrate Polymers, 2017, 174, 392-399.	10.2	56
16	Template method for dual network self-healing hydrogel with conductive property. Materials and Design, 2018, 148, 96-103.	7.0	56
17	Enhancing the mechanical properties and self-healing efficiency of hydroxyethyl cellulose-based conductive hydrogels via supramolecular interactions. European Polymer Journal, 2018, 105, 85-94.	5.4	55
18	Chemical fixation of CO₂ into cyclic carbonates catalyzed by bimetal mixed MOFs: the role of the interaction between Co and Zn. Dalton Transactions, 2020, 49, 312-321.	3.3	52

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19	Macro problems from microplastics: Toward a sustainable policy framework for managing microplastic waste in Africa. Science of the Total Environment, 2022, 804, 150170.	8.0	47
20	A Conductive Selfâ€Healing Double Network Hydrogel with Toughness and Force Sensitivity. Chemistry - A European Journal, 2018, 24, 6632-6638.	3.3	45
21	Zinc ions enhanced nacre-like chitosan/graphene oxide composite film with superior mechanical and shape memory properties. Chemical Engineering Journal, 2017, 321, 502-509.	12.7	44
22	Facile fabrication of graphene-based aerogel with rare earth metal oxide for water purification. Applied Surface Science, 2018, 427, 779-786.	6.1	37
23	Bimetallic MnCo oxide nanohybrids prepared from Prussian blue analogue for application as impedimetric aptasensor carrier to detect myoglobin. Chemical Engineering Journal, 2020, 395, 125117.	12.7	34
24	Hierarchical xanthan gum/graphene oxide nanocomposite film induced by ferric ions coordination. Materials and Design, 2017, 113, 232-239.	7.0	29
25	Glycogen-based self-healing hydrogels with ultra-stretchable, flexible, and enhanced mechanical properties via sacrificial bond interactions. International Journal of Biological Macromolecules, 2018, 117, 648-658.	7.5	29
26	Sunlight-driven photochromic hydrogel based on silver bromide with antibacterial property and non-cytotoxicity. Chemical Engineering Journal, 2019, 375, 121994.	12.7	29
27	Sodium Alginate/Carboxyl-Functionalized Graphene Composite Hydrogel Via Neodymium Ions Coordination. Journal of Materials Science and Technology, 2017, 33, 821-826.	10.7	28
28	Optimization method for blue Sr2MgSi2O7:Eu2+, Dy3+ phosphors produced by microwave synthesis route. Journal of Alloys and Compounds, 2018, 737, 39-45.	5.5	28
29	Bio-inspired and lanthanide-induced hierarchical sodium alginate/graphene oxide composite paper with enhanced physicochemical properties. Composites Science and Technology, 2017, 145, 62-70.	7.8	23
30	Facile synthesis and study of the photochromic properties of deep eutectic solvent-templated cuboctahedral-WO3/MoO3 nanocomposites. Superlattices and Microstructures, 2019, 125, 103-112.	3.1	23
31	Water as DES-cosolvent on the morphology tuning and photochromic enhancement of tungsten oxide-molybdenum oxide nanocomposite. Journal of Industrial and Engineering Chemistry, 2019, 80, 1-10.	5.8	22
32	Preparation of mechanically-tough and thermo-responsive polyurethane-poly(ethylene glycol) hydrogels. Reactive and Functional Polymers, 2017, 117, 81-88.	4.1	17
33	Development of oxidized hydroxyethyl cellulose-based hydrogel enabling unique mechanical, transparent and photochromic properties for contact lenses. International Journal of Biological Macromolecules, 2021, 183, 1162-1173.	7.5	17
34	Multifunctional metal-organic frameworks in oil spills and associated organic pollutant remediation. Environmental Science and Pollution Research, 2020, 27, 42346-42368.	5.3	14
35	Hierarchical alginate biopolymer papers produced via lanthanide ion coordination. RSC Advances, 2016, 6, 63171-63177.	3.6	13
36	Facile and cost-effective synthesis of glycogen-based conductive hydrogels with extremely flexible, excellent self-healing and tunable mechanical properties. International Journal of Biological Macromolecules, 2018, 118, 1463-1469.	7.5	13

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37	Hydrophilic surface modification of polydimetylsiloxaneâ€coâ€2â€hydroxyethylmethacrylate (PDMSâ€HEMA) by Silwet Lâ€77 (heptamethyltrisiloxane) surface treatment. Polymers for Advanced Technologies, 2018, 29, 2601-2611.	3.2	13
38	Direct conversion of cellulose to levulinic acid using SO3H-functionalized ionic liquids containing halogen-anions. Journal of Molecular Liquids, 2021, 339, 117278.	4.9	13
39	Synthesis of three-dimensional graphene architectures by using an environmental-friendly surfactant as a reducing agent. International Journal of Hydrogen Energy, 2017, 42, 18196-18202.	7.1	11
40	Synthesis and properties of <scp>lowâ€cost</scp>, photochromic transparent hydrogel based on ethalineâ€assisted binary tungsten <scp>oxideâ€molybdenum</scp> oxide nanocomposite for optical memory applications. Polymers for Advanced Technologies, 2022, 33, 687-699.	3.2	11
41	Transparent and photochromic poly(hydroxyethyl acrylateâ€“acrylamide)/<scp>WO₃</scp> hydrogel with antibacterial properties against bacterial keratitis in contact lens. Journal of Applied Polymer Science, 2022, 139, .	2.6	11
42	Microporous metal-organic frameworks based on deep eutectic solvents for adsorption of toxic gases and volatile organic compounds: A review. Chemical Engineering Journal Advances, 2022, 12, 100361.	5.2	11
43	Synthesis of silica aerogel monoliths with controlled specific surface areas and pore sizes. Materials Research Express, 2017, 4, 075020.	1.6	10
44	Improvement of the surface wettability of silicone hydrogel films by self-assembled hydroxypropyltrimethyl ammonium chloride chitosan mixed colloids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 558, 422-428.	4.7	10
45	Multifaceted polymeric materials in threeâ€dimensional processing (3DP) technologies: Current progress and prospects. Polymers for Advanced Technologies, 2018, 29, 1586-1602.	3.2	8
46	Facile Green Synthesis of New Chitosan-Metal Nanoparticles as Nano-Agrofungicide For The Preservation of Postharvest Cherry Fruits. ACS Agricultural Science and Technology, 2021, 1, 664-673.	2.3	8
47	Chitosan-drug encapsulation as a potential candidate for COVID-19 drug delivery systems: A review. Journal of the Turkish Chemical Society, Section A: Chemistry, 2020, 7, 851-864.	1.1	8
48	Lanthanide ions-induced formation of hierarchical and transparent polysaccharide hybrid films. Carbohydrate Polymers, 2017, 163, 28-33.	10.2	7
49	High elasticity, strength, and biocompatible amphiphilic hydrogel via click chemistry and ferric ion coordination. Polymers for Advanced Technologies, 2017, 28, 1065-1070.	3.2	7
50	Oncology and COVID-19: Perspectives on cancer patients and oncologists in Africa. Ethics, Medicine and Public Health, 2020, 14, 100550.	0.9	6
51	Quaternary type IV deep eutectic solvent-based tungsten oxide/niobium oxide photochromic and reverse fading composite complex. New Journal of Chemistry, 2021, 45, 18008-18018.	2.8	6
52	Photochromic property of ternary transition metal oxide nanocomposite prepared with co-solvated deep eutectic mixtures. Research on Chemical Intermediates, 2021, 47, 3807-3823.	2.7	6
53	Intrinsic structural/morphological and photochromic responses of WO₃ co-doped MoO₃ nanocomposites based on varied drying methods. Drying Technology, 2022, 40, 2321-2334.	3.1	6
54	Exhaust determination and air-to-fuel ratio performance of end-of-life vehicles in a developing African country: A case study of Nigeria. Transportation Research, Part D: Transport and Environment, 2021, 91, 102705.	6.8	5

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55	Characterization and study of luminescence enhancement behaviour of alginate-based hydrogels. New Journal of Chemistry, 2018, 42, 17486-17491.	2.8	4
56	A Multiâ€Functional and Rapid Responsive Photochromic Hydrogel for UV Indicators. Macromolecular Chemistry and Physics, 2021, 222, 2000427.	2.2	4
57	Advances in polymeric ionic liquids-based smart polymeric materials: emerging fabrication strategies. ChemistrySelect, 2021, .	1.5	4
58	Reroute green synthesis of hexagonal and triclinic nanostructured cerium oxide: morphology and optical properties. Journal of Materials Science: Materials in Electronics, 2021, 32, 16324-16334.	2.2	4
59	Experimental and computational studies of Zn (II) complexes structured with Schiff base ligands as the efficient catalysts for chemical fixation of CO2 into cyclic carbonates. Molecular Catalysis, 2021, 515, 111894.	2.0	4
60	Template synthesis and characterization of photochromic tungsten trioxide nanofibers. Journal of Materials Science: Materials in Electronics, 2022, 33, 7371-7379.	2.2	4
61	Zinc ionâ€induced formation of hierarchical Nâ€succinyl chitosan film. Journal of Applied Polymer Science, 2017, 134, .	2.6	3
62	Robust solventâ€free fabrication and characterization of (polydimethylsiloxaneâ€coâ€2â€hydroxyethylmethacrylate)/poly (ethylene glycol) methacrylate (PDMSâ€HEMA)/PEGMA hydrogels. Polymers for Advanced Technologies, 2019, 30, 1922-1932.	3.2	3
63	1, 2â€Epoxy Propane Induced Selfâ€Assembly of Macroscopic Graphene with Good Adsorption. ChemistrySelect, 2017, 2, 3860-3865.	1.5	2
64	Designing a robust recyclable tricopolymer poly(ionic liquid) macroligand for copper-mediated atom transfer radical polymerization in non-aqueous biphasic systems. New Journal of Chemistry, 2020, 44, 861-869.	2.8	2
65	Self-healing hydrogels. , 2020, , 369-423.		1
66	Saccharomyces cerevisiae Strain â€“ Growth Kinetics, Extracellular Enzymes and Production of Research Productivity and Mapping on Neem: A Bibliometric Analytical Approach Indexed in Web of Sciences. , 2022, 6, 123-132.		1
67	Bibliometric Analysis of 100 Top-Cited Articles on Neem Indexed in the Web of Science. , 2022, 6, 95-108.		1
68	Letter to Editor COVID-19 outbreak and medical waste: Challenge in hand. International Journal of Public Health Science, 2020, 9, 153.	0.2	0
69	11 Advances in polymeric ionic liquids-based smart polymeric materials: emerging fabrication strategies. , 2021, , 145-158.		0