Maryam Borghei

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/7796914/maryam-borghei-publications-by-year.pdf

Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62 2,296 27 47 g-index

65 2,722 8.3 5.34 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
62	Biowaste-derived electrode and electrolyte materials for flexible supercapacitors. <i>Chemical Engineering Journal</i> , 2022 , 435, 135058	14.7	5
61	Systematic Analysis on the Effect of Sintering Temperature for Optimized Performance of Li0.15Ni0.45Zn0.4O2-Gd0.2Ce0.8O2-Li2CO3-Na2CO3-K2CO3 Based 3D Printed Single-Layer Ceramic Fuel Cell. <i>Nanomaterials</i> , 2021 , 11, 2180	5.4	О
60	Bicomponent Cellulose Fibrils and Minerals Afford Wicking Channels Stencil-Printed on Paper for Rapid and Reliable Fluidic Platforms. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 5536-5546	4.3	2
59	Lignin-Based Porous Supraparticles for Carbon Capture. ACS Nano, 2021, 15, 6774-6786	16.7	13
58	Cross-Linked and Surface-Modified Cellulose Acetate as a Cover Layer for Paper-Based Electrochromic Devices. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 2393-2401	4.3	O
57	New Opportunities in the Valorization of Technical Lignins. <i>ChemSusChem</i> , 2021 , 14, 1016-1036	8.3	31
56	Mesoporous Carbon Microfibers for Electroactive Materials Derived from Lignocellulose Nanofibrils. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 8549-8561	8.3	5
55	Self-Assembly of Soft Cellulose Nanospheres into Colloidal Gel Layers with Enhanced Protein Adsorption Capability for Next-Generation Immunoassays. <i>Small</i> , 2020 , 16, e2004702	11	7
54	Microfibers synthesized by wet-spinning of chitin nanomaterials: mechanical, structural and cell proliferation properties <i>RSC Advances</i> , 2020 , 10, 29450-29459	3.7	9
53	Electrically Conductive Thin Films Based on Nanofibrillated Cellulose: Interactions with Water and Applications in Humidity Sensing. <i>ACS Applied Materials & Applications in Humidity Sensing</i> . <i>ACS Applied Materials & Applications in Humidity Sensing</i> . <i>ACS Applied Materials & Applications in Humidity Sensing</i> .	9.5	14
52	Immunosensors: Self-Assembly of Soft Cellulose Nanospheres into Colloidal Gel Layers with Enhanced Protein Adsorption Capability for Next-Generation Immunoassays (Small 50/2020). <i>Small</i> , 2020 , 16, 2070270	11	
51	Dataset for natural organic matter treatment by tailored. <i>Data in Brief</i> , 2019 , 25, 104353	1.2	2
50	High Axial Ratio Nanochitins for Ultrastrong and Shape-Recoverable Hydrogels and Cryogels via Ice Templating. <i>ACS Nano</i> , 2019 , 13, 2927-2935	16.7	41
49	Electrolyte membranes based on ultrafine fibers of acetylated cellulose for improved and long-lasting dye-sensitized solar cells. <i>Cellulose</i> , 2019 , 26, 6151-6163	5.5	10
48	Nanocellulose and Nanochitin Cryogels Improve the Efficiency of Dye Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 10257-10265	8.3	14
47	Machine Learning assisted design of tailor-made nanocellulose films: A combination of experimental and computational studies. <i>Polymer Composites</i> , 2019 , 40, 4013-4022	3	10
46	Conductive Carbon Microfibers Derived from Wet-Spun Lignin/Nanocellulose Hydrogels. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 6013-6022	8.3	36

(2017-2019)

45	Coupling Nanofibril Lateral Size and Residual Lignin to Tailor the Properties of Lignocellulose Films. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900770	4.6	25
44	Tailored mesoporous biochar sorbents from pinecone biomass for the adsorption of natural organic matter from lake water. <i>Journal of Molecular Liquids</i> , 2019 , 291, 111248	6	32
43	Effects of non-solvents and electrolytes on the formation and properties of cellulose I filaments. <i>Scientific Reports</i> , 2019 , 9, 16691	4.9	14
42	Two-Dimensional Antifouling Fluidic Channels on Nanopapers for Biosensing. <i>Biomacromolecules</i> , 2019 , 20, 1036-1044	6.9	8
41	Asymmetrical coffee rings from cellulose nanocrystals and prospects in art and design. <i>Cellulose</i> , 2019 , 26, 491-506	5.5	27
40	Solvent Welding and Imprinting Cellulose Nanofiber Films Using Ionic Liquids. <i>Biomacromolecules</i> , 2019 , 20, 502-514	6.9	19
39	Films based on crosslinked TEMPO-oxidized cellulose and predictive analysis via machine learning. <i>Scientific Reports</i> , 2018 , 8, 4748	4.9	18
38	Biobased aerogels with different surface charge as electrolyte carrier membranes in quantum dot-sensitized solar cell. <i>Cellulose</i> , 2018 , 25, 3363-3375	5.5	11
37	Effect of Anisotropy of Cellulose Nanocrystal Suspensions on Stratification, Domain Structure Formation, and Structural Colors. <i>Biomacromolecules</i> , 2018 , 19, 2931-2943	6.9	40
36	Salt-Induced Colloidal Destabilization, Separation, Drying, and Redispersion in Aqueous Phase of Cationic and Anionic Nanochitins. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 9189-9198	5.7	13
35	Electrocatalysts: Advanced Biomass-Derived Electrocatalysts for the Oxygen Reduction Reaction (Adv. Mater. 24/2018). <i>Advanced Materials</i> , 2018 , 30, 1870171	24	5
34	Advanced Biomass-Derived Electrocatalysts for the Oxygen Reduction Reaction. <i>Advanced Materials</i> , 2018 , 30, e1703691	24	202
33	Electrocatalysis of oxygen reduction on heteroatom-doped nanocarbons and transition metallitrogenlarbon catalysts for alkaline membrane fuel cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 776-804	13	257
32	Experimental and Computational Investigation of Hydrogen Evolution Reaction Mechanism on Nitrogen Functionalized Carbon Nanotubes. <i>ChemCatChem</i> , 2018 , 10, 3872-3882	5.2	11
31	Filaments with Affinity Binding and Wet Strength Can Be Achieved by Spinning Bifunctional Cellulose Nanofibrils. <i>Biomacromolecules</i> , 2017 , 18, 1803-1813	6.9	24
30	Retention of lysozyme activity by physical immobilization in nanocellulose aerogels and antibacterial effects. <i>Cellulose</i> , 2017 , 24, 2837-2848	5.5	25
29	Optical Properties of Self-Assembled Cellulose Nanocrystals Films Suspended at Planar-Symmetrical Interfaces. <i>Small</i> , 2017 , 13, 1702084	11	32
28	Microsphere-Assisted Robust Epidermal Strain Gauge for Static and Dynamic Gesture Recognition. Small, 2017 , 13, 1702108	11	16

27	Formulation and Composition Effects in Phase Transitions of Emulsions Costabilized by Cellulose Nanofibrils and an Ionic Surfactant. <i>Biomacromolecules</i> , 2017 , 18, 4393-4404	6.9	31
26	Temperature dependent performance and catalyst layer properties of PtRu supported on modified few-walled carbon nanotubes for the alkaline direct ethanol fuel cell. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 793, 48-57	4.1	17
25	Porous N,P-doped carbon from coconut shells with high electrocatalytic activity for oxygen reduction: Alternative to Pt-C for alkaline fuel cells. <i>Applied Catalysis B: Environmental</i> , 2017 , 204, 394-	402 ^{1.8}	239
24	Mesoporous carbon soft-templated from lignin nanofiber networks: microphase separation boosts supercapacitance in conductive electrodes. <i>RSC Advances</i> , 2016 , 6, 85802-85810	3.7	53
23	High-Throughput Synthesis of Lignin Particles (~30 nm to ~2 fh) via Aerosol Flow Reactor: Size Fractionation and Utilization in Pickering Emulsions. <i>ACS Applied Materials & amp; Interfaces</i> , 2016 , 8, 23302-10	9.5	120
22	Activity and stability studies of platinized multi-walled carbon nanotubes as fuel cell electrocatalysts. <i>Applied Catalysis B: Environmental</i> , 2015 , 162, 289-299	21.8	32
21	Graphitized carbon nanofiber-Pt nanoparticle hybrids as sensitive tool for preparation of screen printing biosensors. Detection of lactate in wines and ciders. <i>Bioelectrochemistry</i> , 2015 , 101, 58-65	5.6	47
20	Enhanced performance of a silicon microfabricated direct methanol fuel cell with PtRu catalysts supported on few-walled carbon nanotubes. <i>Energy</i> , 2014 , 65, 612-620	7.9	35
19	Influence of different carbon nanostructures on the electrocatalytic activity and stability of Pt supported electrocatalysts. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 8215-8224	6.7	14
18	Interaction of multi-walled carbon nanotubes with perfluorinated sulfonic acid ionomers and surface treatment studies. <i>Carbon</i> , 2014 , 71, 218-228	10.4	27
17	Dissociation of oxygen on pristine and nitrogen-doped carbon nanotubes: a spin-polarized density functional study. <i>RSC Advances</i> , 2014 , 4, 15225-15235	3.7	31
16	Adsorption Behavior of Perfluorinated Sulfonic Acid Ionomer on Highly Graphitized Carbon Nanofibers and Their Thermal Stabilities. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 10814-10823	3.8	28
15	Nitrogen-doped graphene with enhanced oxygen reduction activity produced by pyrolysis of graphene functionalized with imidazole derivatives. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 12749-12756	6.7	22
14	Disposable amperometric biosensor based on lactate oxidase immobilised on platinum nanoparticle-decorated carbon nanofiber and poly(diallyldimethylammonium chloride) films. <i>Biosensors and Bioelectronics</i> , 2014 , 56, 345-51	11.8	65
13	High oxygen reduction activity of few-walled carbon nanotubes with low nitrogen content. <i>Applied Catalysis B: Environmental</i> , 2014 , 158-159, 233-241	21.8	56
12	Highly efficient cathode catalyst layer based on nitrogen-doped carbon nanotubes for the alkaline direct methanol fuel cell. <i>Applied Catalysis B: Environmental</i> , 2014 , 156-157, 341-349	21.8	28
11	High-concentration aqueous dispersions of graphene produced by exfoliation of graphite using cellulose nanocrystals. <i>Carbon</i> , 2014 , 70, 157-163	10.4	76
10	Highly catalytic carbon nanotube counter electrode on plastic for dye solar cells utilizing cobalt-based redox mediator. <i>Electrochimica Acta</i> , 2013 , 111, 206-209	6.7	20

LIST OF PUBLICATIONS

9	Durability of carbon nanofiber (CNF) & carbon nanotube (CNT) as catalyst support for Proton Exchange Membrane Fuel Cells. <i>Solid State Ionics</i> , 2013 , 231, 94-101	3.3	98	
8	Preparation Methods for Multi-Walled Carbon Nanotube Supported Palladium Catalysts. <i>ChemCatChem</i> , 2012 , 4, 2055-2061	5.2	18	
7	The effect of Nafion content in a graphitized carbon nanofiber-based anode for the direct methanol fuel cell. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 19082-19091	6.7	23	
6	Flexible metal-free counter electrode for dye solar cells based on conductive polymer and carbon nanotubes. <i>Journal of Electroanalytical Chemistry</i> , 2012 , 683, 70-74	4.1	21	
5	Synthesis of carbon nanofibres over nanoporous NiMgO catalyst: influence of the bimetallic Ni(Cu, Co, Mo) MgO catalysts. <i>Journal of Experimental Nanoscience</i> , 2012 , 7, 160-173	1.9	11	
4	Durability of different carbon nanomaterial supports with PtRu catalyst in a direct methanol fuel cell. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 3415-3424	6.7	62	
3	Graphitised Carbon Nanofibres as Catalyst Support for PEMFC. Fuel Cells, 2011, 11, 715-725	2.9	24	
2	Atomic Layer Deposition Preparation of Pd Nanoparticles on a Porous Carbon Support for Alcohol Oxidation. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 23067-23073	3.8	74	
1	Kinetics of methane decomposition to COx-free hydrogen and carbon nanofiber over Ni C u/MgO catalyst. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 9479-9488	6.7	46	