

Mahiar Max Hamedi

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

3,656
citations

257101

24
h-index

214527

47
g-index

47
all docs

47
docs citations

47
times ranked

5665
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards woven logic from organic electronic fibres. <i>Nature Materials</i> , 2007, 6, 357-362.	13.3	419
2	Highly Conducting, Strong Nanocomposites Based on Nanocellulose-Assisted Aqueous Dispersions of Single-Wall Carbon Nanotubes. <i>ACS Nano</i> , 2014, 8, 2467-2476.	7.3	325
3	Multifunctional Nanocomposites with High Strength and Capacitance Using 2D MXene and 1D Nanocellulose. <i>Advanced Materials</i> , 2019, 31, e1902977.	11.1	253
4	Self-assembled three-dimensional and compressible interdigitated thin-film supercapacitors and batteries. <i>Nature Communications</i> , 2015, 6, 7259.	5.8	246
5	Understanding the Dispersive Action of Nanocellulose for Carbon Nanomaterials. <i>Nano Letters</i> , 2017, 17, 1439-1447.	4.5	219
6	Integrating Electronics and Microfluidics on Paper. <i>Advanced Materials</i> , 2016, 28, 5054-5063.	11.1	216
7	Electrically conducting fibres for e-textiles: An open playground for conjugated polymers and carbon nanomaterials. <i>Materials Science and Engineering Reports</i> , 2018, 126, 1-29.	14.8	172
8	Layer-by-layer self-assembly of pillared two-dimensional multilayers. <i>Nature Communications</i> , 2019, 10, 2558.	5.8	166
9	Fiber-Embedded Electrolyte-Gated Field-Effect Transistors for e-Textiles. <i>Advanced Materials</i> , 2009, 21, 573-577.	11.1	157
10	Thermoelectric Polymers and their Elastic Aerogels. <i>Advanced Materials</i> , 2016, 28, 4556-4562.	11.1	157
11	Woven Electrochemical Transistors on Silk Fibers. <i>Advanced Materials</i> , 2011, 23, 898-901.	11.1	149
12	Paper-Based Potentiometric Ion Sensing. <i>Analytical Chemistry</i> , 2014, 86, 9548-9553.	3.2	140
13	Electrically Activated Paper Actuators. <i>Advanced Functional Materials</i> , 2016, 26, 2446-2453.	7.8	135
14	Electrochemical Devices Made from Conducting Nanowire Networks Self-Assembled from Amyloid Fibrils and Alkoxysulfonate PEDOT. <i>Nano Letters</i> , 2008, 8, 1736-1740.	4.5	115
15	Iron-Catalyzed Polymerization of Alkoxysulfonate-Functionalized 3,4-Ethylenedioxythiophene Gives Water-Soluble Poly(3,4-ethylenedioxythiophene) of High Conductivity. <i>Chemistry of Materials</i> , 2009, 21, 1815-1821.	3.2	96
16	Electrical Textile Valves for Paper Microfluidics. <i>Advanced Materials</i> , 2017, 29, 1702894.	11.1	60
17	Electroanalytical devices with pins and thread. <i>Lab on A Chip</i> , 2016, 16, 112-119.	3.1	52
18	Ion-induced assemblies of highly anisotropic nanoparticles are governed by ion-ion correlation and specific ion effects. <i>Nanoscale</i> , 2019, 11, 3514-3520.	2.8	47

#	ARTICLE	IF	CITATIONS
19	Green Conducting Cellulose Yarns for Machine-Sewn Electronic Textiles. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 56403-56412.	4.0	39
20	Electronic Polymers and DNA Self-Assembled in Nanowire Transistors. <i>Small</i> , 2013, 9, 363-368.	5.2	34
21	High-Speed Ionic Synaptic Memory Based on 2D Titanium Carbide MXene. <i>Advanced Functional Materials</i> , 2022, 32, 2109970.	7.8	33
22	Liquid-phase exfoliation of layered biochars into multifunctional heteroatom (Fe, N, S) co-doped graphene-like carbon nanosheets. <i>Chemical Engineering Journal</i> , 2021, 420, 127601.	6.6	32
23	Fabrication of Nonperiodic Metasurfaces by Microlens Projection Lithography. <i>Nano Letters</i> , 2016, 16, 4125-4132.	4.5	30
24	Limits to Nanopatterning of Fluids on Surfaces in Soft Lithography. <i>Advanced Functional Materials</i> , 2008, 18, 2563-2571.	7.8	24
25	Coated and uncoated cellophane as materials for microplates and open-channel microfluidics devices. <i>Lab on A Chip</i> , 2016, 16, 3885-3897.	3.1	24
26	A disposable, wearable, flexible, stitched textile electrochemical biosensing platform. <i>Biosensors and Bioelectronics</i> , 2021, 194, 113604.	5.3	24
27	Electroanalytical Paper-Based Nucleic Acid Amplification Biosensors with Integrated Thread Electrodes. <i>Analytical Chemistry</i> , 2021, 93, 14187-14195.	3.2	22
28	Polypeptide-guided assembly of conducting polymer nanocomposites. <i>Nanoscale</i> , 2010, 2, 2058.	2.8	21
29	Functionalisation of recombinant spider silk with conjugated polyelectrolytes. <i>Journal of Materials Chemistry</i> , 2011, 21, 2909.	6.7	20
30	From Single Molecules to Thin Film Electronics, Nanofibers, e-Textiles and Power Cables: Bridging Length Scales with Organic Semiconductors. <i>Advanced Materials</i> , 2019, 31, e1807286.	11.1	20
31	Biomolecular nanowires decorated by organic electronic polymers. <i>Journal of Materials Chemistry</i> , 2010, 20, 2269-2276.	6.7	19
32	Cellulose Nanopaper with Monolithically Integrated Conductive Micropatterns. <i>Advanced Electronic Materials</i> , 2019, 5, 1800924.	2.6	19
33	Supramolecular Assembly of Designed α -Helical Polypeptide-Based Nanostructures and Luminescent Conjugated Polyelectrolytes. <i>Macromolecular Bioscience</i> , 2010, 10, 836-841.	2.1	18
34	Electrochemical circuits from "cut and stick"™ PEDOT:PSS-nanocellulose composite. <i>Flexible and Printed Electronics</i> , 2017, 2, 045010.	1.5	18
35	Copper-Plated Paper for High-Performance Lithium-Ion Batteries. <i>Small</i> , 2018, 14, e1803313.	5.2	18
36	Electrochemical Detection of Genomic DNA Utilizing Recombinase Polymerase Amplification and Stem-Loop Probe. <i>ACS Omega</i> , 2020, 5, 12103-12109.	1.6	17

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37	Woven Electroanalytical Biosensor for Nucleic Acid Amplification Tests. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100034.	3.9	16
38	Thread-based wearable devices. <i>MRS Bulletin</i> , 2021, 46, 502-511.	1.7	16
39	Layer-by-Layer Assembly of Strong Thin Films with High Lithium Ion Conductance for Batteries and Beyond. <i>Small</i> , 2021, 17, e2100954.	5.2	15
40	Layer-by-Layer Self-Assembled Nanostructured Electrodes for Lithium-Ion Batteries. <i>Small</i> , 2021, 17, e2006434.	5.2	12
41	Weaving Off-the-Shelf Yarns into Textile Micro Total Analysis Systems (µTAS). <i>Macromolecular Bioscience</i> , 2020, 20, e2000150.	2.1	10
42	Nitrocellulose-bound achromopeptidase for point-of-care nucleic acid tests. <i>Scientific Reports</i> , 2021, 11, 6140.	1.6	8
43	Hierarchical soot nanoparticle self-assemblies for enhanced performance as sodium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2022, 10, 9059-9066.	5.2	8
44	Polyelectrolyte-Assisted Dispersions of Reduced Graphite Oxide Nanoplates in Water and Their Gas-Barrier Application. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 43301-43313.	4.0	7
45	Layer-by-Layer Assembly of High-Performance Electroactive Composites Using a Multiple Charged Small Molecule. <i>Langmuir</i> , 2019, 35, 10367-10373.	1.6	5
46	Paper Actuators: Electrically Activated Paper Actuators (<i>Adv. Funct. Mater.</i> 15/2016). <i>Advanced Functional Materials</i> , 2016, 26, 2398-2398.	7.8	2
47	Rapid prototyping of heterostructured organic microelectronics using wax printing, filtration, and transfer. <i>Journal of Materials Chemistry C</i> , 2021, 9, 14596-14605.	2.7	1