

Rouhollah Jalili

List of Publications by Year in Descending Order

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

62 papers	3,774 citations	33 h-index	61 g-index
65 ext. papers	4,484 ext. citations	12.5 avg, IF	5.48 L-index

#	Paper	IF	Citations
62	Exploring Interfacial Graphene Oxide Reduction by Liquid Metals: Application in Selective Biosensing. <i>ACS Nano</i> , 2021 ,	16.7	14
61	Liquid metal enabled continuous flow reactor: A proof-of-concept. <i>Matter</i> , 2021 , 4, 4022-4041	12.7	8
60	Liquid-Metal-Enabled Mechanical-Energy-Induced CO Conversion. <i>Advanced Materials</i> , 2021 , e2105789	24	7
59	Bismuth telluride topological insulator synthesized using liquid metal alloys: Test of NO ₂ selective sensing. <i>Applied Materials Today</i> , 2021 , 22, 100954	6.6	10
58	Liquid Crystal-Mediated 3D Printing Process to Fabricate Nano-Ordered Layered Structures. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 28627-28638	9.5	2
57	Polyphenol-Induced Adhesive Liquid Metal Inks for Substrate-Independent Direct Pen Writing. <i>Advanced Functional Materials</i> , 2021 , 31, 2007336	15.6	37
56	Nitrate reduction to ammonium: from CuO defect engineering to waste NO _x -to-NH ₃ economic feasibility. <i>Energy and Environmental Science</i> , 2021 , 14, 3588-3598	35.4	36
55	A hybrid plasma electrocatalytic process for sustainable ammonia production. <i>Energy and Environmental Science</i> , 2021 , 14, 865-872	35.4	54
54	Doping Process of 2D Materials Based on the Selective Migration of Dopants to the Interface of Liquid Metals. <i>Advanced Materials</i> , 2021 , 33, e2104793	24	14
53	Liquid-Metal-Templated Synthesis of 2D Graphitic Materials at Room Temperature. <i>Advanced Materials</i> , 2020 , 32, e2001997	24	44
52	Synergistic amplification of (photo)catalytic oxygen and hydrogen generation from water by thin-film polypyrrole composites. <i>Molecular Catalysis</i> , 2020 , 490, 110955	3.3	4
51	Liquid metal-supported synthesis of cupric oxide. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 1656-1665	7.1	18
50	Liquefied Sunshine: Transforming Renewables into Fertilizers and Energy Carriers with Electromaterials. <i>Advanced Materials</i> , 2020 , 32, e1904804	24	24
49	Pulsing Liquid Alloys for Nanomaterials Synthesis. <i>ACS Nano</i> , 2020 , 14, 14070-14079	16.7	31
48	Liquid Metal Droplet and Graphene Co-Fillers for Electrically Conductive Flexible Composites. <i>Small</i> , 2020 , 16, e1903753	11	53
47	Energy efficient electrochemical reduction of CO ₂ to CO using a three-dimensional porphyrin/graphene hydrogel. <i>Energy and Environmental Science</i> , 2019 , 12, 747-755	35.4	76
46	Steric Modification of a Cobalt Phthalocyanine/Graphene Catalyst To Give Enhanced and Stable Electrochemical CO ₂ Reduction to CO. <i>ACS Energy Letters</i> , 2019 , 4, 666-672	20.1	104

45	Printing approaches to inorganic semiconductor photocatalyst fabrication. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 10858-10878	13	24
44	High-Performance Graphene-Fiber-Based Neural Recording Microelectrodes. <i>Advanced Materials</i> , 2019 , 31, e1805867	24	72
43	Room temperature CO reduction to solid carbon species on liquid metals featuring atomically thin ceria interfaces. <i>Nature Communications</i> , 2019 , 10, 865	17.4	100
42	Scalable Solution Processing MoS Powders with Liquid Crystalline Graphene Oxide for Flexible Freestanding Films with High Areal Lithium Storage Capacity. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 46746-46755	9.5	9
41	MoS2 Polymorphic Engineering Enhances Selectivity in the Electrochemical Reduction of Nitrogen to Ammonia. <i>ACS Energy Letters</i> , 2019 , 4, 430-435	20.1	179
40	Synergistic amplification of catalytic hydrogen generation by a thin-film conducting polymer composite. <i>Catalysis Science and Technology</i> , 2018 , 8, 4169-4179	5.5	7
39	A Porphyrin/Graphene Framework: A Highly Efficient and Robust Electrocatalyst for Carbon Dioxide Reduction. <i>Advanced Energy Materials</i> , 2018 , 8, 1801280	21.8	57
38	Synergistic Amplification of Water Oxidation Catalysis on Pt by a Thin-Film Conducting Polymer Composite. <i>ACS Applied Energy Materials</i> , 2018 , 1, 4235-4246	6.1	8
37	Tubular TiO2 Nanostructures: Toward Safer Microsupercapacitors. <i>Advanced Materials Technologies</i> , 2018 , 3, 1700194	6.8	8
36	Silicon as a ubiquitous contaminant in graphene derivatives with significant impact on device performance. <i>Nature Communications</i> , 2018 , 9, 5070	17.4	28
35	A robust free-standing MoS2/poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) film for supercapacitor applications. <i>Electrochimica Acta</i> , 2017 , 235, 348-355	6.7	63
34	Self-Assembly of Flexible Free-Standing 3D Porous MoS2-Reduced Graphene Oxide Structure for High-Performance Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2017 , 27, 1700234	15.6	160
33	Ionic interactions to tune mechanical and electrical properties of hydrated liquid crystal graphene oxide films. <i>Materials Chemistry and Physics</i> , 2017 , 186, 90-97	4.4	2
32	Quantitative characterisation of conductive fibers by capacitive coupling. <i>Analyst, The</i> , 2017 , 143, 215-223	5	5
31	Implantable electrodes. <i>Current Opinion in Electrochemistry</i> , 2017 , 3, 68-74	7.2	13
30	High-strength graphene and polyacrylonitrile composite fiber enhanced by surface coating with polydopamine. <i>Composites Science and Technology</i> , 2017 , 149, 280-285	8.6	23
29	High Performance Fe Porphyrin/Ionic Liquid Co-catalyst for Electrochemical CO2 Reduction. <i>Chemistry - A European Journal</i> , 2016 , 22, 14158-61	4.8	42
28	Processable 2D materials beyond graphene: MoS liquid crystals and fibres. <i>Nanoscale</i> , 2016 , 8, 16862-16867	16.7	32

27	Superflexibility of graphene oxide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 11088-11093	11.5	90
26	High-Performance Multifunctional Graphene-PLGA Fibers: Toward Biomimetic and Conducting 3D Scaffolds. <i>Advanced Functional Materials</i> , 2016 , 26, 3105-3117	15.6	38
25	A novel and facile approach to fabricate a conductive and biomimetic fibrous platform with sub-micron and micron features. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 1056-1063	7.3	9
24	Characterisation of graphene fibres and graphene coated fibres using capacitively coupled contactless conductivity detector. <i>Analyst, The</i> , 2016 , 141, 2774-82	5	12
23	Shape-engineerable composite fibers and their supercapacitor application. <i>Nanoscale</i> , 2016 , 8, 1910-4	7.7	8
22	Compositional Effects of Large Graphene Oxide Sheets on the Spinnability and Properties of Polyurethane Composite Fibers. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500672	4.6	30
21	Facile Fabrication of Flexible Microsupercapacitor with High Energy Density. <i>Advanced Materials Technologies</i> , 2016 , 1, 1600166	6.8	35
20	Modelling the interaction of graphene oxide using an atomistic-continuum model. <i>RSC Advances</i> , 2015 , 5, 77062-77070	3.7	9
19	Achieving Outstanding Mechanical Performance in Reinforced Elastomeric Composite Fibers Using Large Sheets of Graphene Oxide. <i>Advanced Functional Materials</i> , 2015 , 25, 94-104	15.6	81
18	High-Performance Flexible All-Solid-State Supercapacitor from Large Free-Standing Graphene-PEDOT/PSS Films. <i>Scientific Reports</i> , 2015 , 5, 17045	4.9	195
17	Chemically converted graphene: scalable chemistries to enable processing and fabrication. <i>NPG Asia Materials</i> , 2015 , 7, e186-e186	10.3	57
16	Graphene oxide dispersions: tuning rheology to enable fabrication. <i>Materials Horizons</i> , 2014 , 1, 326-331	14.4	223
15	Capacitive behaviour of thermally reduced graphene oxide in a novel ionic liquid containing di-cationic charge. <i>Synthetic Metals</i> , 2014 , 193, 110-116	3.6	23
14	High-performance multifunctional graphene yarns: toward wearable all-carbon energy storage textiles. <i>ACS Nano</i> , 2014 , 8, 2456-66	16.7	290
13	Formation and processability of liquid crystalline dispersions of graphene oxide. <i>Materials Horizons</i> , 2014 , 1, 87-91	14.4	95
12	Wet-spinning of PEDOT:PSS/functionalized-SWNTs composite: a facile route toward production of strong and highly conducting multifunctional fibers. <i>Scientific Reports</i> , 2013 , 3, 3438	4.9	52
11	Organic solvent-based graphene oxide liquid crystals: a facile route toward the next generation of self-assembled layer-by-layer multifunctional 3D architectures. <i>ACS Nano</i> , 2013 , 7, 3981-90	16.7	191
10	Scalable One-Step Wet-Spinning of Graphene Fibers and Yarns from Liquid Crystalline Dispersions of Graphene Oxide: Towards Multifunctional Textiles. <i>Advanced Functional Materials</i> , 2013 , 23, 5345-5354	15.6	303

9	Carbon nanotube - reduced graphene oxide composites for thermal energy harvesting applications. <i>Advanced Materials</i> , 2013 , 25, 6602-6	24	130
8	Exploiting high quality PEDOT:PSS/BWNT composite formulations for wet-spinning multifunctional fibers. <i>Journal of Materials Chemistry</i> , 2012 , 22, 25174		51
7	Electrical stimulation of myoblast proliferation and differentiation on aligned nanostructured conductive polymer platforms. <i>Advanced Healthcare Materials</i> , 2012 , 1, 801-8	10.1	55
6	One-Step Wet-Spinning Process of Poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate) Fibers and the Origin of Higher Electrical Conductivity. <i>Advanced Functional Materials</i> , 2011 , 21, 3363-3370	15.6	130
5	Immobilization of acetylcholinesterase in nanofibrous PVA/BSA membranes by electrospinning. <i>Engineering in Life Sciences</i> , 2010 , 10, 57-64	3.4	50
4	Effects of fiber diameter and CO ₂ activation temperature on the pore characteristics of polyacrylonitrile based activated carbon nanofibers. <i>Surface and Interface Analysis</i> , 2009 , 41, 814-819	1.5	45
3	Crystalline order and mechanical properties of as-electrospun and post-treated bundles of uniaxially aligned polyacrylonitrile nanofiber. <i>Journal of Applied Polymer Science</i> , 2008 , 110, 3014-3022	2.9	21
2	Fundamental parameters affecting electrospinning of PAN nanofibers as uniaxially aligned fibers. <i>Journal of Applied Polymer Science</i> , 2006 , 101, 4350-4357	2.9	166
1	Gallium-Based Liquid Metal Reaction Media for Interfacial Precipitation of Bismuth Nanomaterials with Controlled Phases and Morphologies. <i>Advanced Functional Materials</i> , 2108673	15.6	10