

# Javad Foroughi

## List of Publications by Citations

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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.

88

papers

3,896

citations

30

h-index

61

g-index

97

ext. papers

4,773

ext. citations

7.8

avg, IF

5.58

L-index

#	Paper	IF	Citations
88	Artificial muscles from fishing line and sewing thread. <i>Science</i> , <b>2014</b> , 343, 868-72	33.3	724
87	Electrically, chemically, and photonically powered torsional and tensile actuation of hybrid carbon nanotube yarn muscles. <i>Science</i> , <b>2012</b> , 338, 928-32	33.3	462
86	Torsional carbon nanotube artificial muscles. <i>Science</i> , <b>2011</b> , 334, 494-7	33.3	407
85	Self-Healing Hydrogels: The Next Paradigm Shift in Tissue Engineering?. <i>Advanced Science</i> , <b>2019</b> , 6, 1801664	16.6	160
84	Knitted Carbon-Nanotube-Sheath/Spandex-Core Elastomeric Yarns for Artificial Muscles and Strain Sensing. <i>ACS Nano</i> , <b>2016</b> , 10, 9129-9135	16.7	147
83	Superelastic Hybrid CNT/Graphene Fibers for Wearable Energy Storage. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702047	21.8	126
82	Sheath-run artificial muscles. <i>Science</i> , <b>2019</b> , 365, 150-155	33.3	120
81	Biopolymers for Antitumor Implantable Drug Delivery Systems: Recent Advances and Future Outlook. <i>Advanced Materials</i> , <b>2018</b> , 30, e1706665	24	109
80	Highly Conductive Carbon Nanotube-Graphene Hybrid Yarn. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 5859-5865	15.6	95
79	Soft, Flexible Freestanding Neural Stimulation and Recording Electrodes Fabricated from Reduced Graphene Oxide. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 3551-3559	15.6	91
78	Self-Healable Hydrogels: Self-Healing Hydrogels: The Next Paradigm Shift in Tissue Engineering? (Adv. Sci. 16/2019). <i>Advanced Science</i> , <b>2019</b> , 6, 1970094	13.6	78
77	High-performance hybrid carbon nanotube fibers for wearable energy storage. <i>Nanoscale</i> , <b>2017</b> , 9, 5063-5071	15.7	74
76	Triaxial braided piezo fiber energy harvesters for self-powered wearable technologies. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 8245-8257	13	59
75	Sulfated polysaccharide-based scaffolds for orthopaedic tissue engineering. <i>Biomaterials</i> , <b>2019</b> , 214, 119214	15.6	58
74	Production of polypyrrole fibres by wet spinning. <i>Synthetic Metals</i> , <b>2008</b> , 158, 104-107	3.6	52
73	Developments in conducting polymer fibres: from established spinning methods toward advanced applications. <i>RSC Advances</i> , <b>2016</b> , 6, 44687-44716	3.7	51
72	Carbon Nanotube Based Fiber Supercapacitor as Wearable Energy Storage. <i>Frontiers in Materials</i> , <b>2019</b> , 6,	4	49

71	Preparation and characterization of hybrid conducting polymer-carbon nanotube yarn. <i>Nanoscale</i> , <b>2012</b> , 4, 940-5	7.7	49
70	Wearable Electronic Textiles from Nanostructured Piezoelectric Fibers. <i>Advanced Materials Technologies</i> , <b>2020</b> , 5, 1900900	6.8	45
69	A reactive wet spinning approach to polypyrrole fibres. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 6421		45
68	Controlled and scalable torsional actuation of twisted nylon 6 fiber. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2016</b> , 54, 1278-1286	2.6	45
67	Piezofibers to smart textiles: a review on recent advances and future outlook for wearable technology. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 9496-9522	13	44
66	Actuator Materials: Review on Recent Advances and Future Outlook for Smart Textiles. <i>Fibers</i> , <b>2019</b> , 7, 21	3.7	40
65	Unipolar stroke, electroosmotic pump carbon nanotube yarn muscles. <i>Science</i> , <b>2021</b> , 371, 494-498	33.3	34
64	Fabrication of a graphene coated nonwoven textile for industrial applications. <i>RSC Advances</i> , <b>2016</b> , 6, 73203-73209	3.7	33
63	The mechanical and the electrical properties of conducting polypyrrole fibers. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 103712	2.5	33
62	Simple and strong: twisted silver painted nylon artificial muscle actuated by Joule heating <b>2014</b> ,		32
61	Fabrication of Coaxial Wet-Spun Graphene-Chitosan Biofibers. <i>Advanced Engineering Materials</i> , <b>2016</b> , 18, 284-293	3.5	32
60	Effect of synthesis conditions on the properties of wet spun polypyrrole fibres. <i>Synthetic Metals</i> , <b>2009</b> , 159, 1837-1843	3.6	31
59	Characterisation of torsional actuation in highly twisted yarns and fibres. <i>Polymer Testing</i> , <b>2015</b> , 46, 88-97.5	7.5	30
58	Electroactive nanostructured scaffold produced by controlled deposition of PPy on electrospun PCL fibres. <i>Research on Chemical Intermediates</i> , <b>2017</b> , 43, 1235-1251	2.8	28
57	Development and Characterization of Novel Hybrid Hydrogel Fibers. <i>Macromolecular Materials and Engineering</i> , <b>2015</b> , 300, 1217-1225	3.9	27
56	Probe Sensor Using Nanostructured Multi-Walled Carbon Nanotube Yarn for Selective and Sensitive Detection of Dopamine. <i>Sensors</i> , <b>2017</b> , 17,	3.8	26
55	Nanostructured Electrospun Hybrid Graphene/Polyacrylonitrile Yarns. <i>Nanomaterials</i> , <b>2017</b> , 7,	5.4	24
54	Smart Fabrics and Networked Clothing: Recent developments in CNT-based fibers and their continual refinement. <i>IEEE Consumer Electronics Magazine</i> , <b>2016</b> , 5, 105-111	3.2	21

53	Highly Stretchable Self-Powered Wearable Electrical Energy Generator and Sensors. <i>Advanced Materials Technologies</i> , <b>2021</b> , 6, 2000841	6.8	21
52	High strain electromechanical actuators based on electrodeposited polypyrrole doped with di-(2-ethylhexyl)sulfosuccinate. <i>Sensors and Actuators B: Chemical</i> , <b>2011</b> , 155, 278-284	8.5	20
51	Hybrid Graphene/Conducting Polymer Strip Sensors for Sensitive and Selective Electrochemical Detection of Serotonin. <i>ACS Omega</i> , <b>2019</b> , 4, 22169-22177	3.9	20
50	Development and Characterization of a Sucrose Microneedle Neural Electrode Delivery System. <i>Advanced Biology</i> , <b>2018</b> , 2, 1700187	3.5	18
49	Nanofibers-Based Piezoelectric Energy Harvester for Self-Powered Wearable Technologies. <i>Polymers</i> , <b>2020</b> , 12,	4.5	18
48	Short Oxygen Plasma Treatment Leading to Long-Term Hydrophilicity of Conductive PCL-PPy Nanofiber Scaffolds. <i>Polymers</i> , <b>2017</b> , 9,	4.5	17
47	Preparation and in vitro assessment of wet-spun gemcitabine-loaded polymeric fibers: Towards localized drug delivery for the treatment of pancreatic cancer. <i>Pancreatology</i> , <b>2017</b> , 17, 795-804	3.8	16
46	Estimation of mechanical property degradation of poly(lactic acid) and flax fibre reinforced poly(lactic acid) bio-composites during thermal processing. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2018</b> , 116, 367-372	4.6	16
45	Bending Analysis of Polymer-Based Flexible Antennas for Wearable, General IoT Applications: A Review. <i>Polymers</i> , <b>2021</b> , 13,	4.5	16
44	3D braided yarns to create electrochemical cells. <i>Electrochemistry Communications</i> , <b>2015</b> , 61, 27-31	5.1	14
43	Carbon nanotube and graphene fiber artificial muscles. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 4592-4614	5.1	14
42	Twist-coil coupling fibres for high stroke tensile artificial muscles. <i>Sensors and Actuators A: Physical</i> , <b>2018</b> , 283, 98-106	3.9	13
41	Effect of anisotropic thermal expansion on the torsional actuation of twist oriented polymer fibres. <i>Polymer</i> , <b>2017</b> , 129, 127-134	3.9	12
40	Brazing techniques for the fabrication of biocompatible carbon-based electronic devices. <i>Carbon</i> , <b>2016</b> , 107, 180-189	10.4	12
39	Electrically contractile polymers augment right ventricular output in the heart. <i>Artificial Organs</i> , <b>2014</b> , 38, 1034-9	2.6	12
38	Wet-Spun Biofiber for Torsional Artificial Muscles. <i>Soft Robotics</i> , <b>2017</b> , 4, 421-430	9.2	11
37	Electrically Conducting Hydrogel Graphene Nanocomposite Biofibers for Biomedical Applications. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 88	5	11
36	Artificial Muscles from Hybrid Carbon Nanotube-Polypyrrole-Coated Twisted and Coiled Yarns. <i>Macromolecular Materials and Engineering</i> , <b>2020</b> , 305, 2000421	3.9	11

35	Coaxial mussel-inspired biofibers: making of a robust and efficacious depot for cancer drug delivery. <i>Journal of Materials Chemistry B</i> , <b>2020</b> , 8, 5064-5079	7.3	10
34	A bladder-free, non-fluidic, conductive McKibben artificial muscle operated electro-thermally. <i>Smart Materials and Structures</i> , <b>2017</b> , 26, 015011	3.4	9
33	Thermomechanical effects in the torsional actuation of twisted nylon 6 fiber. <i>Journal of Applied Polymer Science</i> , <b>2017</b> , 134, 45529	2.9	9
32	Fabrication of Aligned Biomimetic Gellan Gum-Chitosan Microstructures through 3D Printed Microfluidic Channels and Multiple In Situ Cross-Linking Mechanisms. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 3638-3648	5.5	8
31	Wet-Spun Trojan Horse Cell Constructs for Engineering Muscle. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 18	5	8
30	Microwave Characterization of Carbon Nanotube Yarns For UWB Medical Wireless Body Area Networks. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2013</b> , 61, 3625-3631	4.1	8
29	Heterogeneous photoelectro-Fenton using ZnO and TiO <sub>2</sub> thin film as photocatalyst for photocatalytic degradation Malachite Green. <i>Applied Surface Science Advances</i> , <b>2021</b> , 6, 100126	2.6	8
28	Conducting Polymer Fibers <b>2015</b> , 31-62		7
27	Dual high-stroke and high-work capacity artificial muscles inspired by DNA supercoiling. <i>Science Robotics</i> , <b>2021</b> , 6,	18.6	7
26	The charge transport mechanisms in conducting polymer polypyrrole films and fibers. <i>Materials Research Express</i> , <b>2018</b> , 5, 105701	1.7	6
25	Effect of conducting polypyrrole on the transport properties of carbon nanotube yarn. <i>Thin Solid Films</i> , <b>2012</b> , 520, 7049-7053	2.2	6
24	Effect of post-spinning on the electrical and electrochemical properties of wet spun graphene fibre. <i>RSC Advances</i> , <b>2016</b> , 6, 46427-46432	3.7	6
23	Triaxial Carbon Nanotube/Conducting Polymer Wet-Spun Fibers Supercapacitors for Wearable Electronics. <i>Nanomaterials</i> , <b>2020</b> , 11,	5.4	5
22	An octagonal-shaped conductive HC12 & LIBERATOR-40 thread embroidered chipless RFID for general IoT applications. <i>Sensors and Actuators A: Physical</i> , <b>2021</b> , 318, 112485	3.9	5
21	Magnetoresistance mechanisms in carbon-nanotube yarns. <i>Synthetic Metals</i> , <b>2018</b> , 242, 55-60	3.6	4
20	Dual Delivery of Gemcitabine and Paclitaxel by Wet-Spun Coaxial Fibers Induces Pancreatic Ductal Adenocarcinoma Cell Death, Reduces Tumor Volume, and Sensitizes Cells to Radiation. <i>Advanced Healthcare Materials</i> , <b>2020</b> , 9, e2001115	10.1	4
19	Transient Response & Electromagnetic Behaviour of Flexible Bow-Tie Shaped Chip-less RFID Tag for General IoT Applications. <i>Advances in Science, Technology and Engineering Systems</i> , <b>2020</b> , 5, 757-764	0.3	3
18	High Performance Artificial Muscles to Engineer a Ventricular Cardiac Assist Device and Future Perspectives of a Cardiac Sleeve. <i>Advanced Materials Technologies</i> , <b>2021</b> , 6, 2000894	6.8	3

17	Magnetoresistance of carbon nanotube-polypyrrole composite yarns. <i>Physica C: Superconductivity and Its Applications</i> , <b>2018</b> , 548, 78-81	1.3	2
16	Enhancing $\beta$ crystal phase content in electrospun PVDF nanofibers		2
15	Implantable coaxial nanocomposite biofibers for local chemo-photothermal combinational cancer therapy. <i>Nano Select</i> ,	3.1	2
14	Effects of Bending Bow-Tie Chipless RFID Tag for Different Polymer Substrates <b>2019</b> ,		2
13	Twisted and coiled multi-ply yarns artificial muscles. <i>Sensors and Actuators A: Physical</i> , <b>2021</b> , 318, 112490,9		2
12	Hydrogels Fibers <b>2018</b> ,		2
11	A Silver-Coated Conductive Fibre HC12 Sewed Chipless RFID Tag on Cotton Fabric for Wearable Applications <b>2020</b> ,		1
10	A Fibre Embroidered Chipless RFID Tag on Cotton Fabrics for Wearable Applications <b>2020</b> ,		1
9	Conducting Polymer Fibers <b>2014</b> , 1-27		1
8	Novel Bow-Tie Chip-less RFID Tag for Wearable Applications <b>2019</b> ,		1
7	Carbon Nanotube-Graphene Composites Fibers <b>2018</b> , 61-86		1
6	A new approach to develop, characterise and model actuating textiles. <i>Smart Materials and Structures</i> , <b>2021</b> , 30, 025019	3.4	1
5	3D-Printed Coaxial Hydrogel Patches with Mussel-Inspired Elements for Prolonged Release of Gemcitabine.. <i>Polymers</i> , <b>2021</b> , 13,	4.5	1
4	Intelligent drug delivery systems <b>2020</b> , 163-184		
3	Electrothermally Driven Carbon-Based Materials as EAPs: Fundamentals and Device Configurations <b>2016</b> , 455-470		
2	Electrothermally Driven Carbon-Based Materials as EAPs: Fundamentals and Device Configurations <b>2016</b> , 1-16		
1	Advanced Nanostructured Semiconductor Materials: Morphology Controlled Synthesis and Application. <i>Journal of Nanomaterials</i> , <b>2017</b> , 2017, 1-1	3.2	