Sina Naficy

List of Publications by Year
in descending order

		136740	98622
73 papers	4,588 citations	32 h-index	67 g-index
74 all docs	74 docs citations	74 times ranked	6527 citing authors

#	Article	IF	Citations
1	Carbon dots: a novel platform for biomedical applications. Nanoscale Advances, 2022, 4, 353-376.	2.2	46
2	Drug Delivery Based on Stimuli-Responsive Injectable Hydrogels for Breast Cancer Therapy: A Review. Gels, 2022, 8, 45.	2.1	27
3	Sensors for food quality and safety. , 2022, , 389-410.		7
4	A green and biodegradable plasticizer from copolymers of poly(Î²â€hydroxybutyrateâ€•<i>co</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.3	2
5	Flexible Sensors for Hydrogen Peroxide Detection: A Critical Review. ACS Applied Materials & Interfaces, 2022, 14, 20491-20505.	4.0	51
6	Electrical Response of Poly(<i>N</i>-[3-(dimethylamino)Propyl] Methacrylamide) to CO₂ at a Long Exposure Period. ACS Omega, 2022, 7, 22232-22243.	1.6	7
7	Paperâ€Based, Chemiresistive Sensor for Hydrogen Peroxide Detection. Advanced Materials Technologies, 2021, 6, 2001148.	3.0	18
8	Dual high-stroke and highâ€“work capacity artificial muscles inspired by DNA supercoiling. Science Robotics, 2021, 6, .	9.9	23
9	Tough hydrogels for soft artificial muscles. Materials and Design, 2021, 203, 109609.	3.3	35
10	A microwave powered polymeric artificial muscle. Applied Materials Today, 2021, 23, 101021.	2.3	21
11	Few-Layered Boron Nitride Nanosheets for Strengthening Polyurethane Hydrogels. ACS Applied Nano Materials, 2021, 4, 7988-7994.	2.4	10
12	Flexible enzymatic sensors for detection of hydrogen peroxide. , 2021, , .		0
13	Highly Porous, Biocompatible Tough Hydrogels, Processable via Gel Fiber Spinning and 3D Gel Printing. Advanced Materials Interfaces, 2020, 7, 1901770.	1.9	15
14	Materials and manufacturing perspectives in engineering heart valves: a review. Materials Today Bio, 2020, 5, 100038.	2.6	59
15	Hydrogelâ^'Solid Hybrid Materials for Biomedical Applications Enabled by Surfaceâ€Embedded Radicals. Advanced Functional Materials, 2020, 30, 2004599.	7.8	26
16	Bond Reformation, Self-Recovery, and Toughness in Hydrogen-Bonded Hydrogels. ACS Applied Polymer Materials, 2020, 2, 5798-5807.	2.0	11
17	Naked-Eye Detection of Ethylene Using Thiol-Functionalized Polydiacetylene-Based Flexible Sensors. ACS Sensors, 2020, 5, 1921-1928.	4.0	58
18	Nanoassembled Peptide Biosensors for Rapid Detection of Matrilysin Cancer Biomarker. Small, 2020, 16, e1905994.	5.2	18

#	Article	IF	Citations
19	Engineering a Porous Hydrogel-Based Device for Cell Transplantation. ACS Applied Bio Materials, 2020, 3, 1986-1994.	2.3	9
20	Nanocellulose for Sensing Applications. Advanced Materials Interfaces, 2019, 6, 1900424.	1.9	54
21	Models of the Gut for Analyzing the Impact of Food and Drugs. Advanced Healthcare Materials, 2019, 8, e1900968.	3.9	32
22	Fluorescent Carbonâ€•and Oxygenâ€Doped Hexagonal Boron Nitride Powders as Printing Ink for Anticounterfeit Applications. Advanced Optical Materials, 2019, 7, 1901380.	3.6	26
23	Polydiacetylene-based sensors to detect food spoilage at low temperatures. Journal of Materials Chemistry C, 2019, 7, 1919-1926.	2.7	82
24	Polypeptide-affined interpenetrating hydrogels with tunable physical and mechanical properties. Biomaterials Science, 2019, 7, 926-937.	2.6	11
25	Cellulose Fibers Enable Near-Zero-Cost Electrical Sensing of Water-Soluble Gases. ACS Sensors, 2019, 4, 1662-1669.	4.0	114
26	Tough hydrophilic polyurethane-based hydrogels with mechanical properties similar to human soft tissues. Journal of Materials Chemistry B, 2019, 7, 3512-3519.	2.9	18
27	Three-Dimensional Printed Braided Sleeves for Manufacturing McKibben Artificial Muscles. 3D Printing and Additive Manufacturing, 2019, 6, 57-62.	1.4	9
28	Optimized Synthesis of Poly(deoxyribose) Isobutyrate, a Viscous Biomaterial for Bone Morphogenetic Protein-2 Delivery. ACS Applied Materials & Interfaces, 2019, 11, 2870-2879.	4.0	3
29	Simulating Inflammation in a Wound Microenvironment Using a Dermal Woundâ€•onâ€•aâ€Chip Model. Advanced Healthcare Materials, 2019, 8, e1801307.	3.9	46
30	Solidâ€State Poly(ionic liquid) Gels for Simultaneous CO₂ Adsorption and Electrochemical Reduction. Energy Technology, 2018, 6, 702-709.	1.8	10
31	Conductive Tough Hydrogel for Bioapplications. Macromolecular Bioscience, 2018, 18, 1700270.	2.1	52
32	Tough and Processable Hydrogels Based on Lignin and Hydrophilic Polyurethane. ACS Applied Bio Materials, 2018, 1, 2073-2081.	2.3	52
33	Twistâ€“coil coupling fibres for high stroke tensile artificial muscles. Sensors and Actuators A: Physical, 2018, 283, 98-106.	2.0	17
34	Printed, Flexible pH Sensor Hydrogels for Wet Environments. Advanced Materials Technologies, 2018, 3, 1800137.	3.0	34
35	A Sequential Debonding Fracture Model for Hydrogenâ€Bonded Hydrogels. Journal of Polymer Science, Part B: Polymer Physics, 2018, 56, 1287-1293.	2.4	15
36	A Review on Layered Mineral Nanosheets Intercalated with Hydrophobic/Hydrophilic Polymers and Their Applications. Macromolecular Chemistry and Physics, 2018, 219, 1800142.	1.1	10

#	Article	IF	Citations
37	A bladder-free, non-fluidic, conductive McKibben artificial muscle operated electro-thermally. Smart Materials and Structures, 2017, 26, 015011.	1.8	10
38	3D printing of tough hydrogel composites with spatially varying materials properties. Additive Manufacturing, 2017, 14, 24-30.	1.7	59
39	Ionic interactions to tune mechanical and electrical properties of hydrated liquid crystal graphene oxide films. Materials Chemistry and Physics, 2017, 186, 90-97.	2.0	3
40	Effect of anisotropic thermal expansion on the torsional actuation of twist oriented polymer fibres. Polymer, 2017, 129, 127-134.	1.8	15
41	Thermomechanical effects in the torsional actuation of twisted nylon 6 fiber. Journal of Applied Polymer Science, 2017, 134, 45529.	1.3	14
42	4D Printing of Reversible Shape Morphing Hydrogel Structures. Macromolecular Materials and Engineering, 2017, 302, 1600212.	1.7	190
43	Nanostructured Electrospun Hybrid Graphene/Polyacrylonitrile Yarns. Nanomaterials, 2017, 7, 293.	1.9	26
44	Light-Triggered Soft Artificial Muscles:ÂMolecular-Level Amplification of Actuation Control Signals. Scientific Reports, 2017, 7, 9197.	1.6	41
45	Controlled and scalable torsional actuation of twisted nylon 6 fiber. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 1278-1286.	2.4	55
46	Inkjetâ€Printed Alginate Microspheres as Additional Drug Carriers for Injectable Hydrogels. Advances in Polymer Technology, 2016, 35, 439-446.	0.8	10
47	Thermally activated paraffin-filled McKibben muscles. Journal of Intelligent Material Systems and Structures, 2016, 27, 2508-2516.	1.4	14
48	3D/4D Printing Hydrogel Composites: A Pathway to Functional Devices. MRS Advances, 2016, 1, 521-526.	0.5	31
49	A Cytocompatible Robust Hybrid Conducting Polymer Hydrogel for Use in a Magnesium Battery. Advanced Materials, 2016, 28, 9349-9355.	11.1	67
50	Mechanical recoverability and damage process of ionicâ€covalent <scp>PAA</scp>mâ€alginate hybrid hydrogels. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 53-63.	2.4	18
51	The effect of geometry and material properties on the performance of a small hydraulic McKibben muscle system. Sensors and Actuators A: Physical, 2015, 234, 150-157.	2.0	51
52	Edgeâ€Hydroxylated Boron Nitride Nanosheets as an Effective Additive to Improve the Thermal Response of Hydrogels. Advanced Materials, 2015, 27, 7196-7203.	11.1	227
53	Efficient, Absorptionâ€Powered Artificial Muscles Based on Carbon Nanotube Hybrid Yarns. Small, 2015, 11, 3113-3118.	5.2	85
54	Characterisation of torsional actuation in highly twisted yarns and fibres. Polymer Testing, 2015, 46, 88-97.	2.3	38

#	Article	IF	Citations
55	Transparent and conformal 'piezoionic' touch sensor. Proceedings of SPIE, 2015, , .	0.8	16
56	Time-dependent mechanical properties of tough ionic-covalent hybrid hydrogels. Polymer, 2015, 65, 253-261.	1.8	27
57	Effect of tensile load on the actuation performance of pHâ€sensitive hydrogels. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 218-225.	2.4	9
58	Mechanism of stroke enhancement by coiling in carbon nanotube hybrid yarn artificial muscles (presentation video). , 2014, , .		0
59	Stimuli-responsive hydrogel actuators (presentation video). , 2014, , .		1
60	Carbon-based torsional and tensile artificial muscles driven by thermal expansion (presentation) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54	0.8	0
61	Simple and strong: twisted silver painted nylon artificial muscle actuated by Joule heating. Proceedings of SPIE, 2014, , .	0.8	44
62	Graphene oxide dispersions: tuning rheology to enable fabrication. Materials Horizons, 2014, 1, 326-331.	6.4	276
63	Artificial Muscles from Fishing Line and Sewing Thread. Science, 2014, 343, 868-872.	6.0	1,006
64	Thin, Tough, pH-Sensitive Hydrogel Films with Rapid Load Recovery. ACS Applied Materials & Interfaces, 2014, 6, 4109-4114.	4.0	85
65	Evaluation of encapsulating coatings on the performance of polypyrrole actuators. Smart Materials and Structures, 2013, 22, 075005.	1.8	33
66	Mechanical properties of interpenetrating polymer network hydrogels based on hybrid ionically and covalently crosslinked networks. Journal of Applied Polymer Science, 2013, 130, 2504-2513.	1.3	70
67	Bio-ink properties and printability for extrusion printing living cells. Biomaterials Science, 2013, 1, 763.	2.6	484
68	Electrically Conductive, Tough Hydrogels with pH Sensitivity. Chemistry of Materials, 2012, 24, 3425-3433.	3.2	134
69	A pHâ€sensitive, strong doubleâ€network hydrogel: Poly(ethylene glycol) methyl ether methacrylatesâ€"poly(acrylic acid). Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 423-430.	2.4	57
70	Progress Toward Robust Polymer Hydrogels. Australian Journal of Chemistry, 2011, 64, 1007.	0.5	263
71	Modulated release of dexamethasone from chitosanâ€"carbon nanotube films. Sensors and Actuators A: Physical, 2009, 155, 120-124.	2.0	44
72	Developing electrically conductive polypropylene/polyamide6/carbon black composites with microfibrillar morphology. Journal of Applied Polymer Science, 2007, 106, 3461-3467.	1.3	16

#	Article	IF	Citations
73	Study of the effective parameters on mechanical and electrical properties of carbon black filled PP/PA6 microfibrillar composites. Composites Science and Technology, 2007, 67, 3233-3241.	3.8	40