

Gordon G Wallace

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.

1,194
papers

64,472
citations

112
h-index

206
g-index

1,262
ext. papers

70,541
ext. citations

7.2
avg, IF

8
L-index

#	Paper	IF	Citations
1194	The Australian National Fabrication Facility: Micro/nanotechnologies from Concept to Translation to End Users. <i>Advanced Functional Materials</i> , 2022 , 32, 2101995	15.6	
1193	Comparison of the In Vitro and In Vivo Electrochemical Performance of Bionic Electrodes.. <i>Micromachines</i> , 2022 , 13,	3.3	2
1192	Wearable Photo-Thermo-Electrochemical Cells (PTECs) Harvesting Solar Energy.. <i>Macromolecular Rapid Communications</i> , 2022 , e2200001	4.8	1
1191	Bioprinting of Chondrocyte Stem Cell Co-Cultures for Auricular Cartilage Regeneration.. <i>ACS Omega</i> , 2022 , 7, 5908-5920	3.9	2
1190	Earth-abundant electrocatalysts for sustainable energy conversion 2022 , 131-168		
1189	A high-performance capillary-fed electrolysis cell promises more cost-competitive renewable hydrogen.. <i>Nature Communications</i> , 2022 , 13, 1304	17.4	5
1188	Enhanced wireless cell stimulation using soft and improved bipolar electroactive conducting polymer templates. <i>Applied Materials Today</i> , 2022 , 27, 101481	6.6	0
1187	Suitability of Marine- and Porcine-Derived Collagen Type I Hydrogels for Bioprinting and Tissue Engineering Scaffolds. <i>Marine Drugs</i> , 2022 , 20, 366	6	3
1186	All-polymer wearable thermoelectrochemical cells harvesting body heat.. <i>IScience</i> , 2021 , 24, 103466	6.1	2
1185	Invitro and Invivo Study of PCL-Hydrogel Scaffold to Advance Bioprinting Translation in Microtia Reconstruction. <i>Journal of Craniofacial Surgery</i> , 2021 , 32, 1931-1936	1.2	1
1184	Current status of membraneless water electrolysis cells. <i>Current Opinion in Electrochemistry</i> , 2021 , 1008812	12	1
1183	Matured Myofibers in Bioprinted Constructs with In Vivo Vascularization and Innervation. <i>Gels</i> , 2021 , 7,	4.2	2
1182	Precision Medicine in Ossiculoplasty. <i>Otology and Neurotology</i> , 2021 , 42, e177-e185	2.6	2
1181	In vitro characterisation of 3D printed platelet lysate-based bioink for potential application in skin tissue engineering. <i>Acta Biomaterialia</i> , 2021 , 123, 286-297	10.8	12
1180	A 3D printed graphene electrode device for enhanced and scalable stem cell culture, osteoinduction and tissue building. <i>Materials and Design</i> , 2021 , 201, 109473	8.1	2
1179	Fibrinogen, collagen, and transferrin adsorption to poly(3,4-ethylenedioxythiophene)-xylohamno-uronic glycan composite conducting polymer biomaterials for wound healing applications. <i>Biointerphases</i> , 2021 , 16, 021003	1.8	4
1178	The significance of supporting electrolyte on poly (vinyl alcohol)/iron(II)/iron(III) solid-state electrolytes for wearable thermo-electrochemical cells. <i>Electrochemistry Communications</i> , 2021 , 124, 106938	5.1	13

1177	Additive manufacturing enables personalised porous high-density polyethylene surgical implant manufacturing with improved tissue and vascular ingrowth. <i>Applied Materials Today</i> , 2021 , 22, 100965	6.6	4
1176	Unzipping chemical bonds of non-layered bulk structures to form ultrathin nanocrystals. <i>Matter</i> , 2021 , 4, 955-968	12.7	3
1175	Polyisocyanate bridged environmental graphene/epoxy nanocomposite coatings with excellent anticorrosion performance. <i>Progress in Organic Coatings</i> , 2021 , 153, 106167	4.8	4
1174	Boosting Formate Production from CO at High Current Densities Over a Wide Electrochemical Potential Window on a SnS Catalyst. <i>Advanced Science</i> , 2021 , 8, e2004521	13.6	10
1173	Redox Polymers for Tissue Engineering.. <i>Frontiers in Medical Technology</i> , 2021 , 3, 669763	1.9	1
1172	Electrochemiluminescence at 3D Printed Titanium Electrodes. <i>Frontiers in Chemistry</i> , 2021 , 9, 662810	5	3
1171	Engineering human neural tissue analogs by 3D bioprinting and electrostimulation. <i>APL Bioengineering</i> , 2021 , 5, 020901	6.6	4
1170	Dielectric Elastomer Actuators, Neuromuscular Interfaces, and Foreign Body Response in Artificial Neuromuscular Prostheses: A Review of the Literature for an In Vivo Application. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100041	10.1	4
1169	Tunable flow rate in textile-based materials utilising composite fibres. <i>Journal of the Textile Institute</i> , 2021 , 112, 568-577	1.5	
1168	Cathodic exfoliation of graphite into graphene nanoplatelets in aqueous solution of alkali metal salts. <i>Journal of Materials Science</i> , 2021 , 56, 3612-3622	4.3	5
1167	FLASH: Fluorescently Labelled Sensitive Hydrogel to monitor bioscaffolds degradation during neocartilage generation. <i>Biomaterials</i> , 2021 , 264, 120383	15.6	7
1166	Knowledge creation in complex inter-organizational arrangements: understanding the barriers and enablers of university-industry knowledge creation in science-based cooperation. <i>Journal of Knowledge Management</i> , 2021 , 25, 743-769	7.3	8
1165	Coupling machine learning with 3D bioprinting to fast track optimisation of extrusion printing. <i>Applied Materials Today</i> , 2021 , 22, 100914	6.6	15
1164	3D bioprinting dermal-like structures using species-specific ulvan. <i>Biomaterials Science</i> , 2021 , 9, 2424-2438	3.4	4
1163	Wireless electrochemiluminescence at functionalised gold microparticles using 3D titanium electrode arrays. <i>Chemical Communications</i> , 2021 , 57, 4642-4645	5.8	5
1162	Fused filament fabrication 3D printed polylactic acid electroosmotic pumps. <i>Lab on A Chip</i> , 2021 , 21, 3338-3351	7.2	1
1161	Smart polymer implants as an emerging technology for treating airway collapse in obstructive sleep apnea: a pilot (proof of concept) study. <i>Journal of Clinical Sleep Medicine</i> , 2021 , 17, 315-324	3.1	
1160	Impact of Protein Fouling on the Charge Injection Capacity, Impedance, and Effective Electrode Area of Platinum Electrodes for Bionic Devices. <i>ChemElectroChem</i> , 2021 , 8, 1078-1090	4.3	5

1159	One-Pot Hydrothermal Synthesis of Solution-Processable MoS/PEDOT:PSS Composites for High-Performance Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 7285-7296	9.5	17
1158	The 2021 battery technology roadmap. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 183001	3	63
1157	Abuse-Tolerant Electrolytes for Lithium-Ion Batteries. <i>Advanced Science</i> , 2021 , 8, e2003694	13.6	5
1156	Engineering Carbon Materials for Electrochemical Oxygen Reduction Reactions. <i>Advanced Energy Materials</i> , 2021 , 11, 2100695	21.8	13
1155	Atomic nickel cluster decorated defect-rich copper for enhanced C2 product selectivity in electrocatalytic CO2 reduction. <i>Applied Catalysis B: Environmental</i> , 2021 , 291, 120030	21.8	21
1154	Reference Phantom Method for Ultrasonic Imaging of Thin Dynamic Constructs. <i>Ultrasound in Medicine and Biology</i> , 2021 , 47, 2388-2403	3.5	0
1153	Interaction of graphene, MnO ₂ , and Ca ²⁺ for enhanced biomimetic, Bubble-free ₂ oxygen evolution reaction at mild pH. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 28397-28405	6.7	0
1152	A versatile transition metal ion-binding motif derived from covalent organic framework for efficient CO2 electroreduction. <i>Applied Catalysis B: Environmental</i> , 2021 , 291, 119915	21.8	2
1151	Simultaneous Anodic and Cathodic Exfoliation of Graphite Electrodes in an Aqueous Solution of Inorganic Salt. <i>ChemElectroChem</i> , 2021 , 8, 3168-3173	4.3	3
1150	Shaping collagen for engineering hard tissues: Towards a printomics approach. <i>Acta Biomaterialia</i> , 2021 , 131, 41-61	10.8	7
1149	Synthesis, properties, and biomedical applications of alginate methacrylate (ALMA)-based hydrogels: Current advances and challenges. <i>Applied Materials Today</i> , 2021 , 24, 101150	6.6	6
1148	Platinized graphene fiber electrodes uncover direct spleen-vagus communication. <i>Communications Biology</i> , 2021 , 4, 1097	6.7	0
1147	The length dependent selectivity on aligned Cu nanowires for C1 products from CO2 Electroreduction. <i>Electrochimica Acta</i> , 2021 , 394, 139099	6.7	1
1146	3D-Printed Coaxial Hydrogel Patches with Mussel-Inspired Elements for Prolonged Release of Gemcitabine.. <i>Polymers</i> , 2021 , 13,	4.5	1
1145	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> , 2020 , 6, 3638-3648	5.5	8
1144	Electrofluidic control of bioactive molecule delivery into soft tissue models based on gelatin methacryloyl hydrogels using threads and surgical sutures. <i>Scientific Reports</i> , 2020 , 10, 7120	4.9	7
1143	20 Year Review of Three-dimensional Tools in Otology: Challenges of Translation and Innovation. <i>Otology and Neurotology</i> , 2020 , 41, 589-595	2.6	4
1142	A wearable sensor for the detection of sodium and potassium in human sweat during exercise. <i>Talanta</i> , 2020 , 219, 121145	6.2	40

1141	Free-form co-axial bioprinting of a gelatin methacryloyl bio-ink by direct in situ photo-crosslinking during extrusion. <i>Bioprinting</i> , 2020 , 19, e00087	7	11
1140	Nanoscale piezoelectric effect of biodegradable PLA-based composite fibers by piezoresponse force microscopy. <i>Nanotechnology</i> , 2020 , 31, 375708	3.4	6
1139	Conducting Polymer Mediated Electrical Stimulation Induces Multilineage Differentiation with Robust Neuronal Fate Determination of Human Induced Pluripotent Stem Cells. <i>Cells</i> , 2020 , 9,	7.9	12
1138	Wet-Spun Trojan Horse Cell Constructs for Engineering Muscle. <i>Frontiers in Chemistry</i> , 2020 , 8, 18	5	8
1137	Modeling the upper airway: A precursor to personalized surgical interventions for the treatment of sleep apnea. <i>Journal of Biomedical Materials Research - Part A</i> , 2020 , 108, 1419-1425	5.4	1
1136	Engineered 2D Transition Metal Dichalcogenides A Vision of Viable Hydrogen Evolution Reaction Catalysis. <i>Advanced Energy Materials</i> , 2020 , 10, 1903870	21.8	79
1135	Highly ordered mesoporous carbon/iron porphyrin nanoreactor for the electrochemical reduction of CO ₂ . <i>Journal of Materials Chemistry A</i> , 2020 , 8, 14966-14974	13	9
1134	Biomimetic corneal stroma using electro-compacted collagen. <i>Acta Biomaterialia</i> , 2020 , 113, 360-371	10.8	13
1133	Conducting polymer composites for unconventional solid-state supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 4677-4699	13	58
1132	Turning Cotton to Self-Supported Electrocatalytic Carbon Electrode for Highly Efficient Oxygen Reduction. <i>Electrocatalysis</i> , 2020 , 11, 317-328	2.7	3
1131	Encapsulation of Human Natural and Induced Regulatory T-Cells in IL-2 and CCL1 Supplemented Alginate-GelMA Hydrogel for 3D Bioprinting. <i>Advanced Functional Materials</i> , 2020 , 30, 2000544	15.6	16
1130	3D textile structures with integrated electroactive electrodes for wearable electrochemical sensors. <i>Journal of the Textile Institute</i> , 2020 , 111, 1587-1595	1.5	6
1129	Molecular interactions and forces of adhesion between single human neural stem cells and gelatin methacrylate hydrogels of varying stiffness. <i>Acta Biomaterialia</i> , 2020 , 106, 156-169	10.8	17
1128	3D Printed Sugar-Sensing Hydrogels. <i>Macromolecular Rapid Communications</i> , 2020 , 41, e1900610	4.8	3
1127	Energy materials for transient power sources. <i>MRS Bulletin</i> , 2020 , 45, 121-128	3.2	4
1126	Ethical and regulatory considerations for surgeons as consumers and creators of three-dimensional printed medical devices. <i>ANZ Journal of Surgery</i> , 2020 , 90, 1477-1481	1	7
1125	Development of a Platelet Lysate-Based Printable, Transparent Biomaterial With Regenerative Potential for Epithelial Corneal Injuries. <i>Translational Vision Science and Technology</i> , 2020 , 9, 40	3.3	0
1124	Light Cross-Linkable Marine Collagen for Coaxial Printing of a 3D Model of Neuromuscular Junction Formation. <i>Biomedicines</i> , 2020 , 9,	4.8	12

1123	Multitechnology Biofabrication: A New Approach for the Manufacturing of Functional Tissue Structures?. <i>Trends in Biotechnology</i> , 2020 , 38, 1316-1328	15.1	35
1122	Implementing Obstetrics Quality Improvement, Driven by Medico-legal Risk, is Associated With Improved Workplace Culture. <i>Journal of Obstetrics and Gynaecology Canada</i> , 2020 , 42, 38-47.e5	1.3	4
1121	3D hybrid printing platform for auricular cartilage reconstruction. <i>Biomedical Physics and Engineering Express</i> , 2020 , 6, 035003	1.5	7
1120	Optimizing Electron Densities of Ni-N-C Complexes by Hybrid Coordination for Efficient Electrocatalytic CO Reduction. <i>ChemSusChem</i> , 2020 , 13, 929-937	8.3	35
1119	Composite Tissue Adhesive Containing Catechol-Modified Hyaluronic Acid and Poly-L-lysine.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 628-638	4.1	10
1118	Polyterthiophenes Cross-Linked with Terpyridyl Metal Complexes for Molecular Architecture of Optically and Electrochemically Tunable Materials. <i>ChemElectroChem</i> , 2020 , 7, 4453-4459	4.3	3
1117	A microvalve cell printing technique using riboflavin photosensitizer for selective cell patterning onto a retinal chip. <i>Bioprinting</i> , 2020 , 20, e00097	7	1
1116	Bipolar electroactive conducting polymers for wireless cell stimulation. <i>Applied Materials Today</i> , 2020 , 21, 100804	6.6	6
1115	Engineering 2D Materials: A Viable Pathway for Improved Electrochemical Energy Storage. <i>Advanced Energy Materials</i> , 2020 , 10, 2002621	21.8	22
1114	Data on the bipolar electroactive conducting polymers for wireless cell stimulation. <i>Data in Brief</i> , 2020 , 33, 106406	1.2	1
1113	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> , 2020 , 9, e2001115	10.1	4
1112	Advanced Wearable Thermocells for Body Heat Harvesting. <i>Advanced Energy Materials</i> , 2020 , 10, 2002539	21.8	41
1111	A Self-Assembled CO Reduction Electrocatalyst: Posy-Bouquet-Shaped Gold-Polyaniline Core-Shell Nanocomposite. <i>ChemSusChem</i> , 2020 , 13, 5023-5030	8.3	4
1110	3D Printing of Cytocompatible Graphene/Alginate Scaffolds for Mimetic Tissue Constructs. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 824	5.8	16
1109	Hybrid Printing Using Cellulose Nanocrystals Reinforced GelMA/HAMA Hydrogels for Improved Structural Integration. <i>Advanced Healthcare Materials</i> , 2020 , 9, e2001410	10.1	15
1108	Nanotechnology-based disinfectants and sensors for SARS-CoV-2. <i>Nature Nanotechnology</i> , 2020 , 15, 618-621	28.7	171
1107	3D Coaxial Printing Tough and Elastic Hydrogels for Tissue Engineering Using a Catechol Functionalized Ink System. <i>Advanced Healthcare Materials</i> , 2020 , 9, e2001342	10.1	6
1106	Bidirectional Core Sandwich Structure of Reduced Graphene Oxide and Spinnable Multiwalled Carbon Nanotubes for Electromagnetic Interference Shielding Effectiveness. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 46883-46891	9.5	7

1105	Electrical stimulation-induced osteogenesis of human adipose derived stem cells using a conductive graphene-cellulose scaffold. <i>Materials Science and Engineering C</i> , 2020 , 107, 110312	8.3	28
1104	A robust 3D printed multilayer conductive graphene/polycaprolactone composite electrode. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 1664-1670	7.8	5
1103	Hierarchical architectures of mesoporous Pd on highly ordered TiO ₂ nanotube arrays for electrochemical CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 8041-8048	13	8
1102	3D Bioprinting and Differentiation of Primary Skeletal Muscle Progenitor Cells. <i>Methods in Molecular Biology</i> , 2020 , 2140, 229-242	1.4	7
1101	Bioprinting Stem Cells in Hydrogel for In Situ Surgical Application: A Case for Articular Cartilage. <i>Methods in Molecular Biology</i> , 2020 , 2140, 145-157	1.4	6
1100	Self-healing graphene oxide-based composite for electromagnetic interference shielding. <i>Carbon</i> , 2019 , 155, 499-505	10.4	31
1099	A new class of bubble-free water electrolyzer that is intrinsically highly efficient. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 23568-23579	6.7	10
1098	A 3D-Printed Electrochemical Water Splitting Cell. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900433	6.8	11
1097	Facile Development of a Fiber-Based Electrode for Highly Selective and Sensitive Detection of Dopamine. <i>ACS Sensors</i> , 2019 , 4, 2599-2604	9.2	21
1096	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
1095	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
1094	A direct 3D suspension near-field electrospinning technique for the fabrication of polymer nanoarrays. <i>Nanotechnology</i> , 2019 , 30, 195301	3.4	4
1093	Discussion paper on proposed new regulatory changes on 3D technology: a surgical perspective. <i>ANZ Journal of Surgery</i> , 2019 , 89, 117-121	1	2
1092	A simple technique for development of fibres with programmable microsphere concentration gradients for local protein delivery. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 556-565	7.3	2
1091	Human Neural Tissues from Neural Stem Cells Using Conductive Biogel and Printed Polymer Microelectrode Arrays for 3D Electrical Stimulation. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1900425	10.1	35
1090	Dynamics of Inter-Molecular Interactions Between Single A β Oligomeric and Aggregate Species by High-Speed Atomic Force Microscopy. <i>Journal of Molecular Biology</i> , 2019 , 431, 2687-2699	6.5	9
1089	Effects of Interfacial Layers on the Open Circuit Voltage of Polymer/Fullerene Bulk Heterojunction Devices Studied by Charge Extraction Techniques. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 21030-21041	9.5	21
1088	Facile electrochemical synthesis of ultrathin iron oxyhydroxide nanosheets for the oxygen evolution reaction. <i>Chemical Communications</i> , 2019 , 55, 8808-8811	5.8	9

1087	Using Chronopotentiometry to Better Characterize the Charge Injection Mechanisms of Platinum Electrodes Used in Bionic Devices. <i>Frontiers in Neuroscience</i> , 2019 , 13, 380	5.1	11
1086	Wet-spinning and carbonization of graphene/PAN-based fibers: Toward improving the properties of carbon fibers. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47932	2.9	9
1085	Quantitative ultrasound imaging of cell-laden hydrogels and printed constructs. <i>Acta Biomaterialia</i> , 2019 , 91, 173-185	10.8	8
1084	Emerging approach in semiconductor photocatalysis: Towards 3D architectures for efficient solar fuels generation in semi-artificial photosynthetic systems. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2019 , 39, 142-160	16.4	27
1083	Tunable solution-processable anodic exfoliated graphene. <i>Applied Materials Today</i> , 2019 , 15, 290-296	6.6	14
1082	Evaluation of sterilisation methods for bio-ink components: gelatin, gelatin methacryloyl, hyaluronic acid and hyaluronic acid methacryloyl. <i>Biofabrication</i> , 2019 , 11, 035003	10.5	24
1081	Binder-Free Electrodes Derived from Interlayer-Expanded MoS ₂ Nanosheets on Carbon Cloth with a 3D Porous Structure for Lithium Storage. <i>ChemElectroChem</i> , 2019 , 6, 2338-2343	4.3	16
1080	Engineering the poly(vinyl alcohol)-polyaniline colloids for high-performance waterborne alkyd anticorrosion coating. <i>Applied Surface Science</i> , 2019 , 481, 960-971	6.7	14
1079	High-Performance Graphene-Fiber-Based Neural Recording Microelectrodes. <i>Advanced Materials</i> , 2019 , 31, e1805867	24	72
1078	On Low-Concentration Inks Formulated by Nanocellulose Assisted with Gelatin Methacrylate (GelMA) for 3D Printing toward Wound Healing Application. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 8838-8848	9.5	115
1077	Engineering of perfusable double-layered vascular structures using contraction of spheroid-embedded hydrogel and electrochemical cell detachment. <i>Journal of Bioscience and Bioengineering</i> , 2019 , 127, 114-120	3.3	3
1076	Using medicolegal data to support safe medical care: A contributing factor coding framework. <i>Journal of Healthcare Risk Management: the Journal of the American Society for Healthcare Risk Management</i> , 2019 , 38, 11-18	0.9	7
1075	Tunable Conducting Polymers: Toward Sustainable and Versatile Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 14321-14340	8.3	50
1074	Patterning and process parameter effects in 3D suspension near-field electrospinning of nanoarrays. <i>Nanotechnology</i> , 2019 , 30, 495301	3.4	6
1073	Real-time Analysis of Electrolytes in Sweat Through a Wearable Sensing Platform. <i>Proceedings (mdpi)</i> , 2019 , 15, 14	0.3	2
1072	Electrochemical methods for analysing and controlling charge transfer at the electrode/tissue interface. <i>Current Opinion in Electrochemistry</i> , 2019 , 16, 143-148	7.2	8
1071	3D Scaffolds of Polycaprolactone/Copper-Doped Bioactive Glass: Architecture Engineering with Additive Manufacturing and Cellular Assessments in a Coculture of Bone Marrow Stem Cells and Endothelial Cells. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 4496-4510	5.5	11
1070	Bio-Inspired Stretchable and Contractible Tough Fiber by the Hybridization of GO/MWNT/Polyurethane. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 31162-31168	9.5	10

1069	Bioprinting an Artificial Pancreas for Type 1 Diabetes. <i>Current Diabetes Reports</i> , 2019 , 19, 53	5.6	15
1068	3D Printing for Electrocatalytic Applications. <i>Joule</i> , 2019 , 3, 1835-1849	27.8	45
1067	Insights into the Electron Transfer Kinetics, Capacitance and Resistance Effects of Implantable Electrodes Using Fourier Transform AC Voltammetry on Platinum. <i>Journal of the Electrochemical Society</i> , 2019 , 166, G131-G140	3.9	7
1066	Development of rhamnose-rich hydrogels based on sulfated xylorhamno-uronic acid toward wound healing applications. <i>Biomaterials Science</i> , 2019 , 7, 3497-3509	7.4	14
1065	Effect of monophasic pulsed stimulation on live single cell de-adhesion on conducting polymers with adsorbed fibronectin as revealed by single cell force spectroscopy. <i>Biointerphases</i> , 2019 , 14, 021003	1.8	4
1064	3D graphene-containing structures for tissue engineering. <i>Materials Today Chemistry</i> , 2019 , 14, 100199	6.2	17
1063	Biodegradable Conducting Polymer Coating to Mitigate Early Stage Degradation of Magnesium in Simulated Biological Fluid: An Electrochemical Mechanistic Study. <i>ChemElectroChem</i> , 2019 , 6, 4893-4901	4.3	0
1062	Self-Healing Electrode with High Electrical Conductivity and Mechanical Strength for Artificial Electronic Skin. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 46026-46033	9.5	19
1061	Biomedical Applications of Organic Conducting Polymers 2019 , 783-812		1
1060	Two-dimensional transition metal dichalcogenides in supercapacitors and secondary batteries. <i>Energy Storage Materials</i> , 2019 , 19, 408-423	19.4	109
1059	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
1058	Smart graphene-cellulose paper for 2D or 3D "origami-inspired" human stem cell support and differentiation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 176, 87-95	6	20
1057	Pt nanoparticles embedded metal-organic framework nanosheets: A synergistic strategy towards bifunctional oxygen electrocatalysis. <i>Applied Catalysis B: Environmental</i> , 2019 , 245, 389-398	21.8	48
1056	Functionalizing graphene with titanate coupling agents as reinforcement for one-component waterborne poly(urethane-acrylate) anticorrosion coatings. <i>Chemical Engineering Journal</i> , 2019 , 359, 331-343	14.7	46
1055	Development of a Coaxial 3D Printing Platform for Biofabrication of Implantable Islet-Containing Constructs. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1801181	10.1	34
1054	Life-Saving Threads: Advances in Textile-Based Analytical Devices. <i>ACS Combinatorial Science</i> , 2019 , 21, 229-240	3.9	29
1053	Processable Thermally Conductive Polyurethane Composite Fibers. <i>Macromolecular Materials and Engineering</i> , 2019 , 304, 1800542	3.9	16
1052	Tailoring the mechanical properties of gelatin methacryloyl hydrogels through manipulation of the photocrosslinking conditions. <i>Soft Matter</i> , 2018 , 14, 2142-2151	3.6	76

1051	Engineering Human Neural Tissue by 3D Bioprinting. <i>Methods in Molecular Biology</i> , 2018 , 1758, 129-138	1.4	16
1050	Wearable Platform for Real-time Monitoring of Sodium in Sweat. <i>ChemPhysChem</i> , 2018 , 19, 1531-1536	3.2	26
1049	An Electrosynthesized 3D Porous Molybdenum Sulfide/Graphene Film with Enhanced Electrochemical Performance for Lithium Storage. <i>Small</i> , 2018 , 14, 1703096	11	21
1048	Magnetorheological technology for fabricating tunable solid electrolyte with enhanced conductivity and mechanical property. <i>Smart Materials and Structures</i> , 2018 , 27, 035022	3.4	5
1047	Development and Characterization of a Sucrose Microneedle Neural Electrode Delivery System. <i>Advanced Biology</i> , 2018 , 2, 1700187	3.5	18
1046	Electrochemical and Electrostatic Cleavage of Alkoxyamines. <i>Journal of the American Chemical Society</i> , 2018 , 140, 766-774	16.4	88
1045	Three-Dimensional Printing and Cell Therapy for Wound Repair. <i>Advances in Wound Care</i> , 2018 , 7, 145-155	4.8	27
1044	Tunable and Efficient Tin Modified Nitrogen-Doped Carbon Nanofibers for Electrochemical Reduction of Aqueous Carbon Dioxide. <i>Advanced Energy Materials</i> , 2018 , 8, 1702524	21.8	170
1043	Towards thermally stable high performance lithium-ion batteries: the combination of a phosphonium cation ionic liquid and a 3D porous molybdenum disulfide/graphene electrode. <i>Chemical Communications</i> , 2018 , 54, 5338-5341	5.8	8
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