Xiao Liu

List of Publications by Citations

44 papers	1,550 citations	20 h-index	39 g-index
49 ext. papers	1,774 ext. citations	7.3 avg, IF	4.62 L-index

#	Paper	IF	Citations
44	Preparation and characterization of aligned carbon nanotube-ruthenium oxide nanocomposites for supercapacitors. *Small*, **2005**, 1, 560-5	11	210
43	Electrochemical oxidation of multi-walled carbon nanotubes and its application to electrochemical double layer capacitors. *Electrochemistry Communications*, **2005**, 7, 249-255	5.1	170
42	PtPb alloy nanoparticle/carbon nanotube nanocomposite: a strong electrocatalyst for glucose oxidation. *Nanotechnology*, **2006**, 17, 2334-2339	3.4	162
41	Conducting polymers with immobilised fibrillar collagen for enhanced neural interfacing. *Biomaterials*, **2011**, 32, 7309-17	15.6	94
40	Biofunctionalized anti-corrosive silane coatings for magnesium alloys. *Acta Biomaterialia*, **2013**, 9, 8671-7	10.8	89
39	Electrical stimulation promotes nerve cell differentiation on polypyrrole/poly (2-methoxy-5 aniline sulfonic acid) composites. *Journal of Neural Engineering*, **2009**, 6, 065002	5	73
38	Inhibition of smooth muscle cell adhesion and proliferation on heparin-doped polypyrrole. *Acta Biomaterialia*, **2012**, 8, 194-200	10.8	53
37	Bio-functionalisation of polydimethylsiloxane with hyaluronic acid and hyaluronic acid--collagen conjugate for neural interfacing. *Biomaterials*, **2011**, 32, 4714-24	15.6	53
36	Biomaterials for corneal bioengineering. *Biomedical Materials (Bristol)*, **2018**, 13, 032002	3.5	52
35	Inkjet printed polypyrrole/collagen scaffold: A combination of spatial control and electrical stimulation of PC12 cells. *Synthetic Metals*, **2012**, 162, 1375-1380	3.6	48
34	A Cytocompatible Robust Hybrid Conducting Polymer Hydrogel for Use in a Magnesium Battery. *Advanced Materials*, **2016**, 28, 9349-9355	24	46
33	Influence of Biodopants on PEDOT Biomaterial Polymers: Using QCM-D to Characterize Polymer Interactions with Proteins and Living Cells. *Advanced Materials Interfaces*, **2014**, 1, 1300122	4.6	42
32	3D bio-nanofibrous PPy/SIBS mats as platforms for cell culturing. *Chemical Communications*, **2008**, 3729-31	5.8	39
31	A smart cyto-compatible asymmetric polypyrrole membrane for salinity power generation. *Nano Energy*, **2018**, 53, 475-482	17.1	35
30	Development of a porous 3D graphene-PDMS scaffold for improved osseointegration. *Colloids and Surfaces B: Biointerfaces*, **2017**, 159, 386-393	6	34
29	Development of a Coaxial 3D Printing Platform for Biofabrication of Implantable Islet-Containing Constructs. *Advanced Healthcare Materials*, **2019**, 8, e1801181	10.1	34
28	Guidance of neurite outgrowth on aligned electrospun polypyrrole/poly(styrene-beta-isobutylene-beta-styrene) fiber platforms. *Journal of Biomedical Materials Research - Part A*, **2010**, 94, 1004-11	5.4	30

27	Electrical stimulation-induced osteogenesis of human adipose derived stem cells using a conductive graphene-cellulose scaffold. *Materials Science and Engineering C*, **2020**, 107, 110312	8.3	28
26	In situ temporal detection of dopamine exocytosis from l-dopa-incubated MN9D cells using microelectrode array-integrated biochip. *Sensors and Actuators B: Chemical*, **2006**, 115, 634-641	8.5	23
25	Advances in printing biomaterials and living cells: implications for islet cell transplantation. *Current Opinion in Organ Transplantation*, **2016**, 21, 467-75	2.5	22
24	Smart graphene-cellulose paper for 2D or 3D "origami-inspired" human stem cell support and differentiation. *Colloids and Surfaces B: Biointerfaces*, **2019**, 176, 87-95	6	20
23	Fabrication and In Vitro Characterization of Electrochemically Compacted Collagen/Sulfated Xylorhamnoglycuronan Matrix for Wound Healing Applications. *Polymers*, **2018**, 10,	4.5	18
22	3D graphene-containing structures for tissue engineering. *Materials Today Chemistry*, **2019**, 14, 100199	6.2	17
21	Encapsulation of Human Natural and Induced Regulatory T-Cells in IL-2 and CCL1 Supplemented Alginate-GelMA Hydrogel for 3D Bioprinting. *Advanced Functional Materials*, **2020**, 30, 2000544	15.6	16
20	3D Printing of Cytocompatible Graphene/Alginate Scaffolds for Mimetic Tissue Constructs. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 824	5.8	16
19	Biomimetic corneal stroma using electro-compacted collagen. *Acta Biomaterialia*, **2020**, 113, 360-371	10.8	13
18	PEGylation of platinum bio-electrodes. *Electrochemistry Communications*, **2013**, 27, 54-58	5.1	12
17	Fabrication and characterization of cytocompatible polypyrrole films inkjet printed from nanoformulations cytocompatible, inkjet-printed polypyrrole films. *Small*, **2011**, 7, 3434-8	11	12
16	Light Cross-Linkable Marine Collagen for Coaxial Printing of a 3D Model of Neuromuscular Junction Formation. *Biomedicines*, **2020**, 9,	4.8	12
15	The effect of treatment time on the ionic liquid surface film formation: Promising surface coating for Mg alloy AZ31. *Surface and Coatings Technology*, **2016**, 296, 192-202	4.4	12
14	Graphene Oxide-Based Nanomaterials: An Insight into Retinal Prosthesis. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	11
13	Advanced fabrication approaches to controlled delivery systems for epilepsy treatment. *Expert Opinion on Drug Delivery*, **2018**, 15, 915-925	8	11
12	Composite Tissue Adhesive Containing Catechol-Modified Hyaluronic Acid and Poly-l-lysine.. *ACS Applied Bio Materials*, **2020**, 3, 628-638	4.1	10
11	A novel and facile approach to fabricate a conductive and biomimetic fibrous platform with sub-micron and micron features. *Journal of Materials Chemistry B*, **2016**, 4, 1056-1063	7.3	9
10	Electrofluidic control of bioactive molecule delivery into soft tissue models based on gelatin methacryloyl hydrogels using threads and surgical sutures. *Scientific Reports*, **2020**, 10, 7120	4.9	7

9	Three-dimensional neuronal cell culture: in pursuit of novel treatments for neurodegenerative disease. *MRS Communications*, **2017**, 7, 320-331	2.7	4
8	3D-bioprinted vascular scaffold with tunable mechanical properties for simulating and promoting neo-vascularization. *Smart Materials in Medicine*, **2022**, 3, 199-208	12.9	4
7	UNUSUAL ELECTROCHEMICAL RESPONSE OF ELECTROCHEMICAL ETCHING ON MULTIWALLED CARBON NANOTUBES. *Nano*, **2008**, 03, 461-467	1.1	3
6	Bioprinting of Chondrocyte Stem Cell Co-Cultures for Auricular Cartilage Regeneration.. *ACS Omega*, **2022**, 7, 5908-5920	3.9	2
5	A 3D printed graphene electrode device for enhanced and scalable stem cell culture, osteoinduction and tissue building. *Materials and Design*, **2021**, 201, 109473	8.1	2
4	A microvalve cell printing technique using riboflavin photosensitizer for selective cell patterning onto a retinal chip. *Bioprinting*, **2020**, 20, e00097	7	1
3	An electroactive hybrid biointerface for enhancing neuronal differentiation and axonal outgrowth on bio-subretinal chip.. *Materials Today Bio*, **2022**, 14, 100253	9.9	0
2	Pancreatic Islet Transplantation: Development of a Coaxial 3D Printing Platform for Biofabrication of Implantable Islet-Containing Constructs (Adv. Healthcare Mater. 7/2019). *Advanced Healthcare Materials*, **2019**, 8, 1970029	10.1	
1	Characterization of 3D-Printed Human Regulatory T-Cells. *Transplantation*, **2018**, 102, S109	1.8	