Guoxin Tan

List of Publications by Year in Descending Order

32 papers	1,256 citations	17 h-index	35 g-index
36 ext. papers	1,796 ext. citations	9.9 avg, IF	4.55 L-index

#	Paper	IF	Citations
32	Tough and Highly Efficient Underwater Self-Repairing Hydrogels for Soft Electronics.. *Small Methods*, **2022**, e2101513	12.8	5
31	Wireless electrical stimulation at the nanoscale interface induces tumor vascular normalization.. *Bioactive Materials*, **2022**, 18, 399-408	16.7	5
30	Injectable Self-Healing Natural Biopolymer-Based Hydrogel Adhesive with Thermoresponsive Reversible Adhesion for Minimally Invasive Surgery. *Advanced Functional Materials*, **2021**, 31, 2007457	15.6	54
29	Wearable sensors and devices for real-time cardiovascular disease monitoring. *Cell Reports Physical Science*, **2021**, 2, 100541	6.1	11
28	Ultrafast and On-Demand Oil/Water Separation Membrane System Based on Conducting Polymer Nanotip Arrays. *Nano Letters*, **2020**, 20, 4895-4900	11.5	15
27	Wireless Electrochemotherapy by Selenium-Doped Piezoelectric Biomaterials to Enhance Cancer Cell Apoptosis. *ACS Applied Materials & Interfaces*, **2020**, 12, 34505-34513	9.5	11
26	Endogenous electric field as a bridge for antibacterial ion transport from implant to bacteria. *Science China Materials*, **2020**, 63, 1831-1841	7.1	3
25	Elastomeric conductive hybrid hydrogels with continuous conductive networks. *Journal of Materials Chemistry B*, **2019**, 7, 2389-2397	7.3	26
24	Nanomaterials as photothermal therapeutic agents. *Progress in Materials Science*, **2019**, 99, 1-26	42.2	234
23	Polypyrrole Nanocones and Dynamic Piezoelectric Stimulation-Induced Stem Cell Osteogenic Differentiation. *ACS Biomaterials Science and Engineering*, **2019**, 5, 4386-4392	5.5	15
22	A spatially varying charge model for regulating site-selective protein adsorption and cell behaviors. *Biomaterials Science*, **2019**, 7, 876-888	7.4	9
21	A Tough and Self-Powered Hydrogel for Artificial Skin. *Chemistry of Materials*, **2019**, 31, 9850-9860	9.6	56
20	Antimicrobial Peptide Functionalized Conductive Nanowire Array Electrode as a Promising Candidate for Bacterial Environment Application. *Advanced Functional Materials*, **2019**, 29, 1806353	15.6	8
19	The antibacterial effect of potassium-sodium niobate ceramics based on controlling piezoelectric properties. *Colloids and Surfaces B: Biointerfaces*, **2019**, 175, 463-468	6	23
18	Tunable Mechanical, Antibacterial, and Cytocompatible Hydrogels Based on a Functionalized Dual Network of Metal Coordination Bonds and Covalent Crosslinking. *ACS Applied Materials & Interfaces*, **2018**, 10, 6190-6198	9.5	35
17	A Multifunctional Metallohydrogel with Injectability, Self-Healing, and Multistimulus-Responsiveness for Bioadhesives. *Macromolecular Materials and Engineering*, **2018**, 303, 1800305	3.9	10
16	Directing Induced Pluripotent Stem Cell Derived Neural Stem Cell Fate with a Three-Dimensional Biomimetic Hydrogel for Spinal Cord Injury Repair. *ACS Applied Materials & Interfaces*, **2018**, 10, 17742-17755	9.5	92

List of Publications

15	Electroactive polymers for tissue regeneration: Developments and perspectives. *Progress in Polymer Science*, **2018**, 81, 144-162	29.6	132
14	Soft Conducting Polymer Hydrogels Cross-Linked and Doped by Tannic Acid for Spinal Cord Injury Repair. *ACS Nano*, **2018**, 12, 10957-10967	16.7	146
13	Polydopamine-Assisted Immobilization of Copper Ions onto Hemodialysis Membranes for Antimicrobial.. *ACS Applied Bio Materials*, **2018**, 1, 1236-1243	4.1	5
12	Bone-Inspired Spatially Specific Piezoelectricity Induces Bone Regeneration. *Theranostics*, **2017**, 7, 3387-3397	12.1	44
11	Palladium nanoparticles entrapped in a self-supporting nanoporous gold wire as sensitive dopamine biosensor. *Scientific Reports*, **2017**, 7, 7941	4.9	27
10	Fabrication of Biocompatible Potassium Sodium Niobate Piezoelectric Ceramic as an Electroactive Implant. *Materials*, **2017**, 10,	3.5	29
9	Polarization of an electroactive functional film on titanium for inducing osteogenic differentiation. *Scientific Reports*, **2016**, 6, 35512	4.9	23
8	Built-in microscale electrostatic fields induced by anatase-rutile-phase transition in selective areas promote osteogenesis. *NPG Asia Materials*, **2016**, 8,	10.3	26
7	Polydopamine-Assisted Electrochemical Fabrication of Polypyrrole Nanofibers on Bone Implants to Improve Bioactivity. *Macromolecular Materials and Engineering*, **2016**, 301, 1288-1294	3.9	20
6	Surface-Selective Preferential Production of Reactive Oxygen Species on Piezoelectric Ceramics for Bacterial Killing. *ACS Applied Materials & Interfaces*, **2016**, 8, 24306-9	9.5	38
5	Concentration ranges of antibacterial cations for showing the highest antibacterial efficacy but the least cytotoxicity against mammalian cells: implications for a new antibacterial mechanism. *Chemical Research in Toxicology*, **2015**, 28, 1815-22	4	127
4	Chondroitin sulphate-guided construction of polypyrrole nanoarchitectures. *Materials Science and Engineering C*, **2015**, 48, 172-8	8.3	10
3	Reversibly Controlling Preferential Protein Adsorption on Bone Implants by Using an Applied Weak Potential as a Switch. *Angewandte Chemie*, **2014**, 126, 13284-13288	3.6	7
2	0D/1D Heterojunction Implant with Electro-Mechanobiological Coupling Cues Promotes Osteogenesis. *Advanced Functional Materials*,2106249	15.6	7
1	The innovation of biomaterials: From bioactive to bioelectroactive. *Science China Materials*,1	7.1	2