

# Xiaolei Guo

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

1,226  
citations

471371

17  
h-index

360920

35  
g-index

38  
all docs

38  
docs citations

38  
times ranked

1860  
citing authors

#	ARTICLE	IF	CITATIONS
1	An oxygen release system to augment cardiac progenitor cell survival and differentiation under hypoxic condition. <i>Biomaterials</i> , 2012, 33, 5914-5923.	5.7	130
2	Periostin modulates myofibroblast differentiation during full-thickness cutaneous wound repair. <i>Journal of Cell Science</i> , 2012, 125, 121-132.	1.2	123
3	The stimulation of the cardiac differentiation of mesenchymal stem cells in tissue constructs that mimic myocardium structure and biomechanics. <i>Biomaterials</i> , 2011, 32, 5568-5580.	5.7	119
4	Differentiation of cardiosphere-derived cells into a mature cardiac lineage using biodegradable poly(N-isopropylacrylamide) hydrogels. <i>Biomaterials</i> , 2011, 32, 3220-3232.	5.7	92
5	High-efficiency matrix modulus-induced cardiac differentiation of human mesenchymal stem cells inside a thermosensitive hydrogel. <i>Acta Biomaterialia</i> , 2012, 8, 3586-3595.	4.1	87
6	Preparation and characterization of thermosensitive organic-inorganic hybrid microgels with functional Fe <sub>3</sub> O <sub>4</sub> nanoparticles as crosslinker. <i>Polymer</i> , 2011, 52, 172-179.	1.8	70
7	Self-accelerated corrosion of nuclear waste forms at material interfaces. <i>Nature Materials</i> , 2020, 19, 310-316.	13.3	61
8	PNIPAm-PEO-PPO-PEO-PNIPAm Pentablock Terpolymer: Synthesis and Chain Behavior in Aqueous Solution. <i>Macromolecules</i> , 2010, 43, 7312-7320.	2.2	56
9	Recent Advances in Corrosion Science Applicable To Disposal of High-Level Nuclear Waste. <i>Chemical Reviews</i> , 2021, 121, 12327-12383.	23.0	52
10	Electrochemical metrics for corrosion resistant alloys. <i>Scientific Data</i> , 2021, 8, 58.	2.4	46
11	Cardiac differentiation of cardiosphere-derived cells in scaffolds mimicking morphology of the cardiac extracellular matrix. <i>Acta Biomaterialia</i> , 2014, 10, 3449-3462.	4.1	45
12	Creating 3D Angiogenic Growth Factor Gradients in Fibrous Constructs to Guide Fast Angiogenesis. <i>Biomacromolecules</i> , 2012, 13, 3262-3271.	2.6	44
13	Preparation and functional properties of blend films of gliadins and chitosan. <i>Carbohydrate Polymers</i> , 2010, 81, 484-490.	5.1	42
14	A Thermosensitive Hydrogel Capable of Releasing bFGF for Enhanced Differentiation of Mesenchymal Stem Cell into Cardiomyocyte-like Cells under Ischemic Conditions. <i>Biomacromolecules</i> , 2012, 13, 1956-1964.	2.6	35
15	Electrospun Acetalated Dextran Scaffolds for Temporal Release of Therapeutics. <i>Langmuir</i> , 2013, 29, 7957-7965.	1.6	29
16	Insights into the mechanisms controlling the residual corrosion rate of borosilicate glasses. <i>Npj Materials Degradation</i> , 2020, 4, .	2.6	26
17	Review of corrosion interactions between different materials relevant to disposal of high-level nuclear waste. <i>Npj Materials Degradation</i> , 2020, 4, .	2.6	20
18	Effects of Graphene-Based Fillers on Cathodic Delamination and Abrasion Resistance of Cataphoretic Organic Coatings. <i>Coatings</i> , 2020, 10, 602.	1.2	18

#	ARTICLE	IF	CITATIONS
19	Corrosion inhibition of AA2024-T3 by a coating containing dual-pH sensitive, corrosion inhibitor loaded microspheres. <i>Corrosion Science</i> , 2021, 192, 109835.	3.0	16
20	A Novel Organic Conversion Coating based on N-Benzoyl-N-Phenylhydroxylamine Chemistry for the Corrosion Protection of AA2024-T3. <i>Electrochimica Acta</i> , 2017, 246, 197-207.	2.6	15
21	Near-field corrosion interactions between glass and corrosion resistant alloys. <i>Npj Materials Degradation</i> , 2020, 4, .	2.6	15
22	Administration of cells with thermosensitive hydrogel enhances the functional recovery in ischemic rat heart. <i>Journal of Tissue Engineering</i> , 2016, 7, 204173141664667.	2.3	13
23	Entrapped Molybdate in Phytate Film and the Corresponding Anodic Corrosion Inhibition on AA2024-T3. <i>Journal of the Electrochemical Society</i> , 2016, 163, C260-C268.	1.3	10
24	Corrosion interactions between stainless steel and lead vanado-iodoapatite nuclear waste form part I. <i>Npj Materials Degradation</i> , 2020, 4, .	2.6	8
25	Activation energy of metal dissolution in local pit environments. <i>Corrosion Science</i> , 2021, 193, 109901.	3.0	8
26	Encapsulation of NaVO <sub>3</sub> as Corrosion Inhibitor into Microparticles and its Active Corrosion Protection for AA2024 Based Upon Inhibitor Control Release. <i>Corrosion</i> , 2015, 71, 1411-1413.	0.5	7
27	Reply to: How much does corrosion of nuclear waste matrices matter. <i>Nature Materials</i> , 2020, 19, 962-963.	13.3	7
28	Corrosion interactions between stainless steel and lead vanado-iodoapatite nuclear waste form part II. <i>Npj Materials Degradation</i> , 2020, 4, .	2.6	7
29	Smart coating with dual-pH sensitive, inhibitor-loaded nanofibers for corrosion protection. <i>Npj Materials Degradation</i> , 2021, 5, .	2.6	6
30	Corrosion inhibition of AA2024-T3 by smart polyelectrolyte coacervates responsive to both acidic and alkaline environments. <i>Progress in Organic Coatings</i> , 2020, 146, 105719.	1.9	6
31	Electrical Contact Resistance in REBCO Stacks and Cables With Modified Surfaces. <i>IEEE Transactions on Applied Superconductivity</i> , 2022, 32, 1-6.	1.1	4
32	Degradation mechanism of lead-vanado-iodoapatite in NaCl solution. <i>Corrosion Science</i> , 2020, 172, 108720.	3.0	3
33	Epsilon metal: A waste form for noble metals from used nuclear fuel. <i>Journal of Nuclear Materials</i> , 2020, 532, 152040.	1.3	3
34	Enhanced crevice corrosion of stainless steel 316 by degradation of Cr-containing hollandite crevice former. <i>Corrosion Science</i> , 2022, 205, 110462.	3.0	2
35	Nanoscale TiO <sub>2</sub> coating improves water stability of Cs <sub>2</sub> SnCl <sub>6</sub> . <i>MRS Communications</i> , 2020, 10, 687-694.	0.8	1
36	(Invited) Surface Analysis of Corrosion Products Built up at Interfaces of Different Nuclear Waste Forms in Near-Field Environment. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 1282-1282.	0.0	0

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37	Corrosion Inhibition of AA2024-T3 By Smart Polyelectrolyte Coacervates Responsive to Both Acidic and Alkaline Environments. ECS Meeting Abstracts, 2020, MA2020-02, 1346-1346.	0.0	0
38	Long-term interactive corrosion between International Simple Glass and stainless steel. Npj Materials Degradation, 2022, 6, .	2.6	0