

# Jianliang Li

## List of Publications by Year in descending order

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52  
papers

2,191  
citations

159585

30  
h-index

223800

46  
g-index

52  
all docs

52  
docs citations

52  
times ranked

2452  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic and self-healing chitosan-alginate hydrogel encapsulated gelatin microspheres via covalent cross-linking for drug delivery. <i>Materials Science and Engineering C</i> , 2019, 101, 619-629.	7.3	149
2	Injectable polysaccharide hydrogel embedded with hydroxyapatite and calcium carbonate for drug delivery and bone tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2018, 118, 1257-1266.	7.5	147
3	Chitosan membrane dressings toughened by glycerol to load antibacterial drugs for wound healing. <i>Materials Science and Engineering C</i> , 2017, 81, 522-531.	7.3	115
4	Preparation and tribological behavior of Ni-graphene composite coating under room temperature. <i>Applied Surface Science</i> , 2016, 361, 49-56.	6.1	99
5	Effect of load and sliding speed on friction and wear behavior of silver/h-BN containing Ni-base P/M composites. <i>Wear</i> , 2011, 270, 423-430.	3.1	98
6	Effect of surface laser texture on friction properties of nickel-based composite. <i>Tribology International</i> , 2010, 43, 1193-1199.	5.9	97
7	Elevated temperature tribological behavior of Ni based composites containing nano-silver and hBN. <i>Wear</i> , 2010, 269, 884-890.	3.1	96
8	Covalently polysaccharide-based alginate/chitosan hydrogel embedded alginate microspheres for BSA encapsulation and soft tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2019, 127, 340-348.	7.5	93
9	Tribological properties of PTFE/laser surface textured stainless steel under starved oil lubrication. <i>Tribology International</i> , 2015, 82, 305-310.	5.9	72
10	Doubly crosslinked biodegradable hydrogels based on gellan gum and chitosan for drug delivery and wound dressing. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 2204-2214.	7.5	68
11	In situ fabrication of ( $\pm$ -Al <sub>2</sub> O <sub>3</sub> +Al <sub>3</sub> Zr)/Al composites in an Al-ZrO <sub>2</sub> system. <i>Composites Science and Technology</i> , 2010, 70, 2183-2189.	7.8	65
12	Tribological behavior of graphite-containing nickel-based composite as function of temperature, load and counterface. <i>Wear</i> , 2009, 266, 360-367.	3.1	60
13	High temperature dry sliding friction and wear behavior of aluminum matrix composites (Al <sub>3</sub> Zr+ $\pm$ -Al <sub>2</sub> O <sub>3</sub> )/Al. <i>Tribology International</i> , 2012, 48, 78-86.	5.9	59
14	Reaction mechanisms of the TiC/Fe composite fabricated by exothermic dispersion from Fe-Ti-C element system. <i>Powder Technology</i> , 2013, 246, 456-461.	4.2	57
15	Tribological properties of laser surface textured and plasma electrolytic oxidation duplex-treated Ti6Al4V alloy deposited with MoS <sub>2</sub> film. <i>Surface and Coatings Technology</i> , 2015, 269, 266-272.	4.8	56
16	In situ repair of graphene defects and enhancement of its reinforcement effect in polyvinyl alcohol hydrogels. <i>RSC Advances</i> , 2017, 7, 1045-1055.	3.6	54
17	Effect of Flash Temperature on Tribological Properties of Bulk Metallic Glasses. <i>Tribology Letters</i> , 2009, 35, 151-158.	2.6	52
18	Reaction mechanism and mechanical properties of an aluminum-based composite fabricated in-situ from Al-SiO <sub>2</sub> system. <i>Materials Chemistry and Physics</i> , 2014, 145, 334-341.	4.0	49

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19	High entropy alloy FeCoNiCu matrix composites reinforced with in-situ TiC particles and graphite whiskers. <i>Materials Chemistry and Physics</i> , 2018, 220, 449-459.	4.0	48
20	Reaction pathways, activation energies and mechanical properties of hybrid composites synthesized in-situ from Al <sup>3+</sup> /TiO <sub>2</sub> /C powder mixtures. <i>Materials Chemistry and Physics</i> , 2012, 137, 532-542.	4.0	41
21	Superhydrophobic Surface with Stepwise Multilayered Micro- and Nanostructure and an Investigation of Its Corrosion Resistance. <i>Langmuir</i> , 2019, 35, 15078-15085.	3.5	41
22	The water-locking and cross-linking effects of graphene oxide on the load-bearing capacity of poly(vinyl alcohol) hydrogel. <i>RSC Advances</i> , 2016, 6, 82467-82477.	3.6	40
23	Effect of Ag and CeO <sub>2</sub> on friction and wear properties of Ni-base composite at high temperature. <i>Wear</i> , 2009, 267, 576-584.	3.1	38
24	Tribological properties of molybdenized silver-containing nickel base alloy at elevated temperatures. <i>Tribology International</i> , 2009, 42, 1722-1729.	5.9	37
25	Adaptive-lubricating PEO/Ag/MoS <sub>2</sub> multilayered coatings for Ti6Al4V alloy at elevated temperature. <i>Materials and Design</i> , 2016, 107, 311-321.	7.0	36
26	Tribological properties of silver coatings with laser surface textured nickel as interlayer. <i>Tribology International</i> , 2016, 100, 178-185.	5.9	36
27	Covalent Chitosan/Cellulose Hydrogels via Schiff's Base Reaction Containing Macromolecular Microgels for pH-sensitive Drug Delivery and Wound Dressing. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1900399.	2.2	35
28	Friction and Wear Properties of MoS <sub>2</sub> -Overcoated Laser Surface-Textured Silver-Containing Nickel-Based Alloy at Elevated Temperatures. <i>Tribology Letters</i> , 2011, 43, 221-228.	2.6	34
29	Microstructure and high temperature wear of the aluminum matrix composites fabricated by reaction from Al-ZrO <sub>2</sub> -B elemental powders. <i>Powder Technology</i> , 2012, 217, 401-408.	4.2	33
30	Alginate membrane dressing toughened by chitosan floccule to load antibacterial drugs for wound healing. <i>Polymer Testing</i> , 2019, 79, 106039.	4.8	31
31	Characterization and friction behavior of LST/PEO duplex-treated Ti6Al4V alloy with burnished MoS <sub>2</sub> film. <i>Applied Surface Science</i> , 2015, 347, 475-484.	6.1	25
32	Tribological properties of laser surface texturing and molybdenizing duplex-treated stainless steel at elevated temperatures. <i>Surface and Coatings Technology</i> , 2013, 228, S219-S223.	4.8	24
33	Covalently injectable chitosan/chondroitin sulfate hydrogel integrated gelatin/heparin microspheres for soft tissue engineering. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2021, 70, 149-157.	3.4	20
34	Microstructure and Tribological Properties of Plasma-Sprayed Al <sub>0.2</sub> Co <sub>1.5</sub> CrFeNi <sub>1.5</sub> Ti-Ag Composite Coating from 25 to 750 °C. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 1640-1649.	2.5	18
35	Study on the reaction mechanism and mechanical properties of aluminum matrix composites fabricated in an Al-ZrO <sub>2</sub> -B system. <i>Materials Chemistry and Physics</i> , 2011, 127, 179-184.	4.0	17
36	Dynamical release nanospheres containing cell growth factor from biopolymer hydrogel via reversible covalent conjugation. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2018, 29, 1344-1359.	3.5	17

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37	In situ aluminum matrix composites fabricated from Al-NiO <sub>3</sub> system through microwave synthesis. <i>Materials Chemistry and Physics</i> , 2015, 153, 333-337.	4.0	15
38	Influences of carbon additions on reaction mechanisms and tensile properties of Al-based composites synthesized in-situ by Al-SiO <sub>2</sub> powder system. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 623, 78-82.	5.6	14
39	Tribological properties of MoN layer on silver-containing nickel-base alloy at high temperatures. <i>Wear</i> , 2011, 271, 987-993.	3.1	13
40	Microwave combustion synthesis of in situ Al <sub>2</sub> O <sub>3</sub> and Al <sub>3</sub> Zr reinforced aluminum matrix composites. <i>Materials Research Bulletin</i> , 2015, 68, 283-288.	5.2	13
41	Frictional properties of silver over-coated on surface textured tantalum interlayer at elevated temperatures. <i>Surface and Coatings Technology</i> , 2019, 365, 189-199.	4.8	12
42	Mechanical and tribological behaviors of PVA/PAAm double network hydrogels under varied strains as cartilage replacement. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50226.	2.6	12
43	Chemical reaction mechanism, microstructural characteristics and mechanical properties of in situ (Al <sub>2</sub> O <sub>3</sub> +ZrB <sub>2</sub> )/Al composites. <i>Materials Chemistry and Physics</i> , 2017, 196, 45-51.	4.0	10
44	Reaction mechanisms, resultant microstructures and tensile properties of Al-based composites fabricated in situ from Al-SiO <sub>2</sub> -Mg system. <i>Advanced Powder Technology</i> , 2017, 28, 2572-2580.	4.1	10
45	Surface texturing for adaptive Ag/MoS <sub>2</sub> solid lubricant plating. <i>Rare Metals</i> , 2012, 31, 560-565.	7.1	9
46	In situ synthesis and characterization of a hierarchically structured Al <sub>2</sub> O <sub>3</sub> /Al <sub>3</sub> Ti composite. <i>Journal of Materials Science</i> , 2013, 48, 929-935.	3.7	7
47	Wide temperature lubrication of LST/PEO/Ag/MoS <sub>2</sub> multilayer coating. <i>Surface Engineering</i> , 2019, 35, 71-78.	2.2	7
48	Embrittlement of a bulk metallic glass containing ductile phase after low temperature annealing. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 1677-1681.	1.5	5
49	Reaction Mechanisms and Tensile Properties of the Composites Fabricated by Al-B <sub>2</sub> O <sub>3</sub> System. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2019, 34, 1024-1029.	1.0	3
50	Dry Sliding Tribological Behavior at Elevated Temperature of In Situ Aluminum Matrix Composites Fabricated by Al-ZrO <sub>2</sub> -C System with Different Mole Ratio of C/ZrO <sub>2</sub> . <i>Journal of Powder Metallurgy and Mining</i> , 2017, 06, .	0.3	2
51	Mechanical and Frictional Performance of Ta and Ta-Ag Alloy Films Deposited at Different Sputtering Powers. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 5037-5046.	2.5	2
52	Tribological Behavior of Ni-Based Self-Lubricating Composites at Elevated Temperatures. <i>Advances in Chemical and Materials Engineering Book Series</i> , 2015, , 72-106.	0.3	0