

Limei Tian

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

1,856
citations

331670

21
h-index

276875

41
g-index

59
all docs

59
docs citations

59
times ranked

1507
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of phase change heat transfer in shape-stabilized phase change materials (ss-PCMs) based on porous supports for thermal energy storage. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 135, 110127.	16.4	307
2	Bioinspired marine antifouling coatings: Status, prospects, and future. <i>Progress in Materials Science</i> , 2022, 124, 100889.	32.8	181
3	Synergistic Photodynamic and Photothermal Antibacterial Nanocomposite Membrane Triggered by Single NIR Light Source. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 26581-26589.	8.0	166
4	Lotus-leaf-inspired hierarchical structured surface with non-fouling and mechanical bactericidal performances. <i>Chemical Engineering Journal</i> , 2020, 398, 125609.	12.7	145
5	Flexible and Stretchable 3D Sensors for Thermal Characterization of Human Skin. <i>Advanced Functional Materials</i> , 2017, 27, 1701282.	14.9	90
6	Near-infrared light triggered photodynamic and nitric oxide synergistic antibacterial nanocomposite membrane. <i>Chemical Engineering Journal</i> , 2021, 417, 128049.	12.7	84
7	Recent advances in emerging integrated antifouling and anticorrosion coatings. <i>Materials and Design</i> , 2022, 213, 110307.	7.0	59
8	Bioinspired photocatalytic ZnO/Au nanopillar-modified surface for enhanced antibacterial and antiadhesive property. <i>Chemical Engineering Journal</i> , 2020, 398, 125575.	12.7	53
9	Heat transfer characteristics and compatibility of molten salt/ceramic porous composite phase change material. <i>Nano Energy</i> , 2022, 100, 107476.	16.0	49
10	Antifouling Technology Trends in Marine Environmental Protection. <i>Journal of Bionic Engineering</i> , 2021, 18, 239-263.	5.0	48
11	Nanofiber Composite Coating with Self-Healing and Active Anticorrosive Performances. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 57880-57892.	8.0	47
12	Antifouling performance and mechanism of elastic graphene-silicone rubber composite membranes. <i>Journal of Materials Chemistry B</i> , 2019, 7, 488-497.	5.8	43
13	A facile antifogging/frost-resistant coating with self-healing ability. <i>Chemical Engineering Journal</i> , 2019, 378, 122173.	12.7	40
14	Tribological and anticorrosion behavior of self-healing coating containing nanocapsules. <i>Tribology International</i> , 2019, 136, 332-341.	5.9	30
15	Small Structure, Large Effect: Functional Surfaces Inspired by <i>Salvinia</i> Leaves. <i>Small Structures</i> , 2021, 2, 2100079.	12.0	29
16	Bioinspired PDMS-Phosphor-Silicone Rubber Sandwich Structure Coatings for Combating Biofouling. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901577.	3.7	28
17	Anti-wear properties of the molluscan shell <i>Scapharca subcrenata</i> : Influence of surface morphology, structure and organic material on the elementary wear process. <i>Materials Science and Engineering C</i> , 2014, 42, 7-14.	7.3	27
18	Toward the Application of Graphene for Combating Marine Biofouling. <i>Advanced Sustainable Systems</i> , 2021, 5, .	5.3	27

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19	Biocompatible mechano-bactericidal nanopatterned surfaces with salt-responsive bacterial release. <i>Acta Biomaterialia</i> , 2022, 141, 198-208.	8.3	23
20	Bio-inspired Graphene-enhanced Thermally Conductive Elastic Silicone Rubber as Drag Reduction Material. <i>Journal of Bionic Engineering</i> , 2017, 14, 130-140.	5.0	22
21	Combined Effects of Color and Elastic Modulus on Antifouling Performance: A Study of Graphene Oxide/Silicone Rubber Composite Membranes. <i>Materials</i> , 2019, 12, 2608.	2.9	22
22	Bio-inspired Non-bactericidal Coating Used for Antibiofouling. <i>Advanced Materials Technologies</i> , 2019, 4, 1800480.	5.8	22
23	Formation and Antibacterial Performance of Metal-Organic Framework Films <i>via</i> Dopamine-Mediated Fast Assembly under Visible Light. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 15834-15842.	6.7	22
24	Bioinspired nanopillar surface for switchable mechano-bactericidal and releasing actions. <i>Journal of Hazardous Materials</i> , 2022, 432, 128685.	12.4	21
25	Thermoresponsive Nanostructures: From Mechano-Bactericidal Action to Bacteria Release. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 60865-60877.	8.0	21
26	Bio-inspired Superhydrophobic Self-healing Surfaces with Synergistic Anticorrosion Performance. <i>Journal of Bionic Engineering</i> , 2020, 17, 1196-1208.	5.0	19
27	A Remaining Useful Life Prediction Approach Based on Low-Frequency Current Data for Bearings in Spacecraft. <i>IEEE Sensors Journal</i> , 2021, 21, 18978-18989.	4.7	19
28	A simple quinoline derivative as fluorescent probe with high sensitivity and selectivity for Al ³⁺ in aqueous solution. <i>Tetrahedron Letters</i> , 2018, 59, 4110-4115.	1.4	18
29	Highly efficient antifogging and frost-resisting acrylic coatings from one-step thermal curing. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 585, 124160.	4.7	16
30	Two preparation processes for anti-corrosion and self-healing epoxy coatings containing the poly (calcium alginate) microcapsules loaded with tung oil. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 641, 128600.	4.7	16
31	Component-dependent thermal properties of molten salt eutectics for solar thermal energy storage: Experiments, molecular simulation and applications. <i>Applied Thermal Engineering</i> , 2022, 209, 118333.	6.0	16
32	Surprisingly fast assembly of the MOF film for synergetic antibacterial phototherapeutics. <i>Green Chemistry</i> , 2022, 24, 5930-5940.	9.0	13
33	Anti-adhesive and bactericidal polymeric coating based on Schiff-base reaction. <i>Materials Letters</i> , 2019, 250, 182-185.	2.6	9
34	Dynamically oleophobic epoxy coating with surface enriched in silicone. <i>Progress in Organic Coatings</i> , 2021, 154, 106170.	3.9	9
35	Metal-organic framework (MOF)-based slippery liquid-infused porous surface (SLIPS) for purely physical antibacterial applications. <i>Applied Materials Today</i> , 2022, 27, 101430.	4.3	9
36	The study of the efficiency enhancement of bionic coupling centrifugal pumps. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2013, 35, 517-524.	1.6	8

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37	Parylene F coatings for combating marine biofouling. <i>Materials Letters</i> , 2021, 285, 129141.	2.6	8
38	An antiadhesion and antibacterial platform based on parylene F coatings. <i>Progress in Organic Coatings</i> , 2021, 151, 106021.	3.9	7
39	A synergistic antibacterial platform: combining mechanical and photothermal effects based on Van-MoS ₂ Au nanocomposites. <i>Nanotechnology</i> , 2021, 32, 085102.	2.6	7
40	Mechanically Enhanced Self-Stratified Acrylic/Silicone Antifouling Coatings. <i>Coatings</i> , 2022, 12, 232.	2.6	7
41	Improved flow performance of a centrifugal compressor based on pit formation on the notum of the whirligig beetle (<i>Gyrinidae Latreille</i>). <i>Advances in Mechanical Engineering</i> , 2015, 7, 168781401559173.	1.6	6
42	Exploring the antifouling effect of elastic deformation by DEM-CFD coupling simulation. <i>RSC Advances</i> , 2019, 9, 40855-40862.	3.6	6
43	A chromone derivative as a colorimetric and ON-OFF-ON fluorescent probe for highly sensitive and selective detection of Cu ²⁺ and S ²⁻ . <i>Inorganica Chimica Acta</i> , 2021, 519, 120280.	2.4	6
44	Exploring the antifouling performance of non-bactericidal and bactericidal film for combating marine biofouling. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 126, 270-277.	5.3	6
45	Drag reduction performance and mechanism of a thermally conductive elastic wall in internal flow. <i>Applied Thermal Engineering</i> , 2017, 123, 1152-1157.	6.0	5
46	Novel Anti-fouling Strategies of Live and Dead Soft Corals (<i>Sarcophyton trocheliophorum</i>): Combined Physical and Chemical Mechanisms. <i>Journal of Bionic Engineering</i> , 2020, 17, 677-685.	5.0	5
47	The rigidizable behavior of the deployable hindwings of the Asian ladybeetle during flight. <i>Journal of Materials Science</i> , 2021, 56, 5670-5683.	3.7	5
48	A customized model for 3D human segmental kinematic coupling analysis by optoelectronic stereophotogrammetry. <i>Science China Technological Sciences</i> , 2010, 53, 2947-2953.	4.0	4
49	Effects and Mechanisms of Surface Topography on the Antiwear Properties of Molluscan Shells (<i>Scapharca subcrenata</i>) Using the Fluid-Solid Interaction Method. <i>Scientific World Journal</i> , The, 2014, 2014, 1-12.	2.1	4
50	Aluminum nitride-filled elastic silicone rubber composites for drag reduction. <i>Advances in Mechanical Engineering</i> , 2017, 9, 168781401769762.	1.6	4
51	Combined effects of wrinkled vein structures and nanomechanical properties on hind wing deformation. <i>Micron</i> , 2021, 140, 102965.	2.2	4
52	A Physics-informed Transfer Learning Approach for Anomaly Detection of Aerospace CMG with Limited Telemetry Data. , 2021, , .		4
53	The fluid control mechanism of bionic structural heterogeneous composite materials and its potential application in enhancing pump efficiency. <i>Advances in Mechanical Engineering</i> , 2015, 7, 168781401561955.	1.6	3
54	Study on Preparation Technology of Self-healing Micro-nano Capsule based on Calcium Alginate. , 2018, , .		2

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55	Biofouling: Bio-Inspired Non-Bactericidal Coating Used for Antibiofouling (Adv. Mater. Technol. 2/2019). Advanced Materials Technologies, 2019, 4, 1970014.	5.8	2
56	Investigation of the selective color-changing mechanism of Dynastes tityus beetle (Coleoptera: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70	3.3	2
57	A Microthermal Sensor for Cryoablation Balloons. Journal of Biomechanical Engineering, 2020, 142, .	1.3	1
58	TO@CA Nanocapsule Anti-corrosion Coating: Selfhealing and Mechanical Properties. , 2019, , .		0