

# Lei Yang

## List of Publications by Year in descending order

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27  
papers

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citations

516710  
16  
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552781  
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docs citations

27  
times ranked

808  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microscopic failure mechanisms of fiber-reinforced polymer composites under transverse tension and compression. <i>Composites Science and Technology</i> , 2012, 72, 1818-1825.	7.8	185
2	A new method for generating random fibre distributions for fibre reinforced composites. <i>Composites Science and Technology</i> , 2013, 76, 14-20.	7.8	167
3	Effects of inter-fiber spacing and thermal residual stress on transverse failure of fiber-reinforced polymer matrix composites. <i>Computational Materials Science</i> , 2013, 68, 255-262.	3.0	64
4	Ultra-fast charging in aluminum-ion batteries: electric double layers on active anode. <i>Nature Communications</i> , 2021, 12, 820.	12.8	62
5	Micromechanical modelling and simulation of unidirectional fibre-reinforced composite under shear loading. <i>Journal of Reinforced Plastics and Composites</i> , 2015, 34, 72-83.	3.1	53
6	Experimental and numerical investigation of aramid fibre reinforced laminates subjected to low velocity impact. <i>Polymer Testing</i> , 2013, 32, 1163-1173.	4.8	45
7	Hydrate-based heavy metal separation from aqueous solution. <i>Scientific Reports</i> , 2016, 6, 21389.	3.3	42
8	Effects of triangle-shape fiber on the transverse mechanical properties of unidirectional carbon fiber reinforced plastics. <i>Composite Structures</i> , 2016, 152, 617-625.	5.8	36
9	Microscopic damage mechanisms of fibre reinforced composite laminates subjected to low velocity impact. <i>Computational Materials Science</i> , 2016, 111, 148-156.	3.0	36
10	Integrated impedance and Lamb wave-based structural health monitoring strategy for long-term cycle-loaded composite structure. <i>Structural Health Monitoring</i> , 2018, 17, 763-776.	7.5	25
11	Guide waves-based multi-damage identification using a local probability-based diagnostic imaging method. <i>Smart Materials and Structures</i> , 2016, 25, 045009.	3.5	23
12	Analyzing spatially and temporally visualized formation behavior of methane hydrate in unconsolidated porous media. <i>Magnetic Resonance Imaging</i> , 2019, 61, 224-230.	1.8	23
13	In-situ observation for natural gas hydrate in porous medium: Water performance and formation characteristic. <i>Magnetic Resonance Imaging</i> , 2020, 65, 166-174.	1.8	23
14	Prediction on residual stresses of carbon/epoxy composite at cryogenic temperature. <i>Polymer Composites</i> , 2019, 40, 3412-3420.	4.6	20
15	Compression strength of stitched foam-core sandwich composites with impact induced damage. <i>Journal of Reinforced Plastics and Composites</i> , 2012, 31, 1236-1246.	3.1	16
16	A novel apparatus for <i>in situ</i> measurement of thermal conductivity of hydrate-bearing sediments. <i>Review of Scientific Instruments</i> , 2015, 86, 085110.	1.3	16
17	Effects of Gear-Shape Fibre on the Transverse Mechanical Properties of Unidirectional Composites: Virtual Material Design by Computational Micromechanics. <i>Applied Composite Materials</i> , 2017, 24, 1165-1178.	2.5	16
18	Reconstruction of full-field complex deformed shapes of thin-walled special-section beam structures based on in situ strain measurement. <i>Advances in Structural Engineering</i> , 2020, 23, 3335-3350.	2.4	12

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19	Prediction on macroscopic elastic properties of interphase-contained long-fiber-reinforced composites and multiple nonlinear regression analysis. <i>Journal of Reinforced Plastics and Composites</i> , 2012, 31, 1143-1157.	3.1	11
20	Pressure pulse wave attenuation model coupling waveform distortion and viscous dissipation for blockage detection in pipeline. <i>Energy Science and Engineering</i> , 2020, 8, 260-265.	4.0	11
21	Self-Organized Colloids Thermodynamically Weaken the Effect of Salt on Methane Hydrate Formation. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 11323-11330.	6.7	9
22	Structural Damage Identification Based on Integrated Utilization of Inverse Finite Element Method and Pseudo-Excitation Approach. <i>Sensors</i> , 2021, 21, 606.	3.8	7
23	Ionogel Microphones Detect Underwater Sound with Directivity and Exceptional Stability. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1295-1303.	4.3	6
24	Molecular dynamics simulation on the formation and development of interlayer dislocations in bilayer graphene. <i>Nanotechnology</i> , 2020, 31, 125704.	2.6	5
25	Passive wireless sensors fabricated by spark plasma sintering for ultra-high temperature measurements. <i>Smart Materials and Structures</i> , 2020, 29, 115006.	3.5	2
26	Dislocation-Induced Energy Dissipation in a Tunable Trilayer Graphene Resonator. <i>Journal of Physical Chemistry C</i> , 2022, 126, 10449-10458.	3.1	1
27	Construction of reversible network-based the anti-sequence of natural number pair. , 2010, , .		0