

Jingjie Yeo

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

2,069
citations

218381

26
h-index

243296

44
g-index

65
all docs

65
docs citations

65
times ranked

2984
citing authors

#	ARTICLE	IF	CITATIONS
1	Paraffin-enabled graphene transfer. <i>Nature Communications</i> , 2019, 10, 867.	5.8	185
2	A molecular dynamics study of the thermal conductivity of graphene nanoribbons containing dispersed Stone–Thrower–Wales defects. <i>Carbon</i> , 2012, 50, 4887-4893.	5.4	150
3	High-Strength, Durable All-Silk Fibroin Hydrogels with Versatile Processability toward Multifunctional Applications. <i>Advanced Functional Materials</i> , 2018, 28, 1704757.	7.8	133
4	Dynamic pigmentary and structural coloration within cephalopod chromatophore organs. <i>Nature Communications</i> , 2019, 10, 1004.	5.8	105
5	Advancing the frontiers of silk fibroin protein-based materials for futuristic electronics and clinical wound-healing (Invited review). <i>Materials Science and Engineering C</i> , 2018, 86, 151-172.	3.8	99
6	Solar-powered nanostructured biopolymer hygroscopic aerogels for atmospheric water harvesting. <i>Nano Energy</i> , 2021, 80, 105569.	8.2	99
7	Wood-Derived Carbon with Selectively Introduced C=O Groups toward Stable and High Capacity Anodes for Sodium Storage. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 27499-27507.	4.0	75
8	Fiber-Based Biopolymer Processing as a Route toward Sustainability. <i>Advanced Materials</i> , 2022, 34, e2105196.	11.1	71
9	Molecular dynamics simulation of the thermal conductivity of shorts strips of graphene and silicene: a comparative study. <i>International Journal of Mechanics and Materials in Design</i> , 2013, 9, 105-114.	1.7	70
10	Peptide–Graphene Interactions Enhance the Mechanical Properties of Silk Fibroin. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 21787-21796.	4.0	64
11	A review on low dimensional carbon desalination and gas separation membrane designs. <i>Journal of Membrane Science</i> , 2020, 598, 117785.	4.1	64
12	Comparing the effects of dispersed Stone–Thrower–Wales defects and double vacancies on the thermal conductivity of graphene nanoribbons. <i>Nanotechnology</i> , 2012, 23, 385702.	1.3	56
13	Conductive Silk-Based Composites Using Biobased Carbon Materials. <i>Advanced Materials</i> , 2019, 31, e1904720.	11.1	52
14	Synergistic Roll-to-Roll Transfer and Doping of CVD–Graphene Using Parylene for Ambient–Stable and Ultra-Lightweight Photovoltaics. <i>Advanced Functional Materials</i> , 2020, 30, 2001924.	7.8	45
15	Free-standing graphene slit membrane for enhanced desalination. <i>Carbon</i> , 2016, 110, 350-355.	5.4	44
16	Discovery and design of soft polymeric bio-inspired materials with multiscale simulations and artificial intelligence. <i>Journal of Materials Chemistry B</i> , 2020, 8, 6562-6587.	2.9	44
17	A molecular dynamics study of the thermal conductivity of nanoporous silica aerogel, obtained through negative pressure rupturing. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 1350-1355.	1.5	41
18	Multiscale Modeling of Silk and Silk-Based Biomaterials—A Review. <i>Macromolecular Bioscience</i> , 2019, 19, e1800253.	2.1	40

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19	Multiscale modeling of keratin, collagen, elastin and related human diseases: Perspectives from atomistic to coarse-grained molecular dynamics simulations. <i>Extreme Mechanics Letters</i> , 2018, 20, 112-124.	2.0	39
20	Determination of the Young's modulus of silica aerogels – an analytical–numerical approach. <i>Soft Matter</i> , 2013, 9, 11367.	1.2	38
21	Unusually low and density-insensitive thermal conductivity of three-dimensional gyroid graphene. <i>Nanoscale</i> , 2017, 9, 13477-13484.	2.8	38
22	Materials-by-design: computation, synthesis, and characterization from atoms to structures. <i>Physica Scripta</i> , 2018, 93, 053003.	1.2	32
23	Investigations on different two-dimensional materials as slit membranes for enhanced desalination. <i>Journal of Membrane Science</i> , 2020, 598, 117653.	4.1	32
24	Multiscale Design of Graphyne-Based Materials for High-Performance Separation Membranes. <i>Advanced Materials</i> , 2019, 31, e1805665.	11.1	30
25	Enhanced thermal characterization of silica aerogels through molecular dynamics simulation. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2013, 21, 075004.	0.8	27
26	Fabrication and Characterization of Recombinant Silk-Elastin-Like-Protein (SELP) Fiber. <i>Macromolecular Bioscience</i> , 2018, 18, e1800265.	2.1	26
27	Current Insights on the Diverse Structures and Functions in Bacterial Collagen-like Proteins. <i>ACS Biomaterials Science and Engineering</i> , 2023, 9, 3778-3795.	2.6	25
28	Carbon nanoscroll–silk crystallite hybrid structures with controllable hydration and mechanical properties. <i>Nanoscale</i> , 2017, 9, 9181-9189.	2.8	21
29	Unraveling the molecular mechanisms of thermo-responsive properties of silk-elastin-like proteins by integrating multiscale modeling and experiment. <i>Journal of Materials Chemistry B</i> , 2018, 6, 3727-3734.	2.9	21
30	Data-Driven Approaches Toward Smarter Additive Manufacturing. <i>Advanced Intelligent Systems</i> , 2021, 3, 2100014.	3.3	21
31	Carbon nanotube arrays as multilayer transverse flow carbon nanotube membrane for efficient desalination. <i>Journal of Membrane Science</i> , 2019, 581, 383-392.	4.1	20
32	Adverse effects of Alport syndrome-related Gly missense mutations on collagen type IV: Insights from molecular simulations and experiments. <i>Biomaterials</i> , 2020, 240, 119857.	5.7	18
33	Metamodeling of constitutive model using Gaussian process machine learning. <i>Journal of the Mechanics and Physics of Solids</i> , 2021, 154, 104532.	2.3	17
34	Nanoscale Fluid Mechanics Working Principles of Transverse Flow Carbon Nanotube Membrane for Enhanced Desalination. <i>International Journal of Applied Mechanics</i> , 2017, 09, 1750034.	1.3	16
35	Effects of CNT size on the desalination performance of an outer-wall CNT slit membrane. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 13896-13902.	1.3	16
36	Birefringent Silk Fibroin Hydrogel Constructed via Binary Solvent-Exchange-Induced Self-Assembly. <i>Biomacromolecules</i> , 2021, 22, 1955-1965.	2.6	16

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37	Tuning the structure of monomeric amyloid beta peptide by the curvature of carbon nanotubes. <i>Carbon</i> , 2019, 153, 717-724.	5.4	14
38	Performance-enhanced lithium metal batteries through ionic liquid based electrolytes and mechanism research derived by density functional theory calculations. <i>Electrochimica Acta</i> , 2021, 368, 137535.	2.6	14
39	Toward rational algorithmic design of collagen-based biomaterials through multiscale computational modeling. <i>Current Opinion in Chemical Engineering</i> , 2019, 24, 79-87.	3.8	13
40	Multiscale Modeling of Silk and Silk-Based Biomaterials—A Review. <i>Macromolecular Bioscience</i> , 2019, 19, 1970007.	2.1	12
41	Adsorption and Conformational Evolution of Alpha-Helical BSA Segments on Graphene: A Molecular Dynamics Study. <i>International Journal of Applied Mechanics</i> , 2016, 08, 1650021.	1.3	11
42	Molecular Dynamics Analysis of the Thermal Conductivity of Graphene and Silicene Monolayers of Different Lengths. <i>Journal of Computational and Theoretical Nanoscience</i> , 2014, 11, 1790-1796.	0.4	10
43	Numerical characterization of ultraviolet ink fluid agglomeration and the surfactant effect in nanoinkjet printing. <i>Polymers for Advanced Technologies</i> , 2017, 28, 1057-1064.	1.6	10
44	Effects of oscillating pressure on desalination performance of transverse flow CNT membrane. <i>Desalination</i> , 2019, 451, 35-44.	4.0	10
45	Many-body dissipative particle dynamics simulations of nanodroplet formation in 3D nano-inkjet printing. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2019, 27, 055005.	0.8	9
46	The effect of ionic liquid-based electrolytes for dendrite-inhibited and performance-boosted lithium metal batteries. <i>Electrochimica Acta</i> , 2022, 401, 139527.	2.6	9
47	Strengthening the Sustainability of Additive Manufacturing through Data-Driven Approaches and Workforce Development. <i>Advanced Intelligent Systems</i> , 2021, 3, 2100069.	3.3	8
48	Silica Aerogels: A Review of Molecular Dynamics Modelling and Characterization of the Structural, Thermal, and Mechanical Properties. , 2020, , 1575-1595.		7
49	Superlubricity-activated thinning of graphite flakes compressed by passivated crystalline silicon substrates for graphene exfoliation. <i>Carbon</i> , 2014, 80, 68-74.	5.4	6
50	Customizing the properties of borosilicate foam glasses via additions under low sintering temperatures with insights from molecular dynamics simulations. <i>Journal of Non-Crystalline Solids</i> , 2022, 576, 121273.	1.5	6
51	The Impact of Foaming Effect on the Physical and Mechanical Properties of Foam Glasses with Molecular-Level Insights. <i>Molecules</i> , 2022, 27, 876.	1.7	6
52	Engineering Natural and Recombinant Silks for Sustainable Biodevices. <i>Frontiers in Chemistry</i> , 2022, 10, .	1.8	6
53	Conformational Freedom-Enhanced Optomechanical Energy Conversion Efficiency in Bulk Azo-Polyimides. <i>Advanced Functional Materials</i> , 0, , 2104414.	7.8	4
54	Producing light, strong foam glass under a low sintering temperature with insights from molecular simulations. <i>Journal of Non-Crystalline Solids</i> , 2022, 582, 121447.	1.5	4

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55	Numerical study of surface agglomeration of ultraviolet-inkjet printing process. Journal of Polymer Science, Part B: Polymer Physics, 2018, 56, 1615-1624.	2.4	3
56	Specific osteogenesis imperfecta-related Gly substitutions in type I collagen induce distinct structural, mechanical, and dynamic characteristics. Chemical Communications, 2021, 57, 12183-12186.	2.2	3
57	Hybridly double-crosslinked carbon nanotube networks with combined strength and toughness via cooperative energy dissipation. Nanoscale, 2022, 14, 2434-2445.	2.8	3
58	Design and Production of Customizable and Highly Aligned Fibrillar Collagen Scaffolds. ACS Biomaterials Science and Engineering, 2021, , .	2.6	2
59	Conformational Freedom-Enhanced Optomechanical Energy Conversion Efficiency in Bulk Azo-Polyimides (Adv. Funct. Mater. 45/2021). Advanced Functional Materials, 2021, 31, .	7.8	2
60	Silica Aerogels: A Review of Molecular Dynamics Modelling and Characterization of the Structural, Thermal, and Mechanical Properties. , 2018, , 1-21.		1
61	Molecular dynamics modelling of EGCG clusters on ceramide bilayers. AIP Conference Proceedings, 2015, , .	0.3	0
62	Effects of Nanoporosity on the Mechanical Properties and Applications of Aerogels in Composite Structures. , 2016, , 97-126.		0