

# 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	Current Insights on the Diverse Structures and Functions in Bacterial Collagen-like Proteins. ACS Biomaterials Science and Engineering, 2023, 9, 3778-3795.	2.6	25
2	Fiber-Based Biopolymer Processing as a Route toward Sustainability. Advanced Materials, 2022, 34, e2105196.	11.1	71
3	The effect of ionic liquid-based electrolytes for dendrite-inhibited and performance-boosted lithium metal batteries. Electrochimica Acta, 2022, 401, 139527.	2.6	9
4	Customizing the properties of borosilicate foam glasses via additions under low sintering temperatures with insights from molecular dynamics simulations. Journal of Non-Crystalline Solids, 2022, 576, 121273.	1.5	6
5	Hybridly double-crosslinked carbon nanotube networks with combined strength and toughness via cooperative energy dissipation. Nanoscale, 2022, 14, 2434-2445.	2.8	3
6	The Impact of Foaming Effect on the Physical and Mechanical Properties of Foam Glasses with Molecular-Level Insights. Molecules, 2022, 27, 876.	1.7	6
7	Producing light, strong foam glass under a low sintering temperature with insights from molecular simulations. Journal of Non-Crystalline Solids, 2022, 582, 121447.	1.5	4
8	Engineering Natural and Recombinant Silks for Sustainable Biodevices. Frontiers in Chemistry, 2022, 10, .	1.8	6
9	Performance-enhanced lithium metal batteries through ionic liquid based electrolytes and mechanism research derived by density functional theory calculations. Electrochimica Acta, 2021, 368, 137535.	2.6	14
10	Solar-powered nanostructured biopolymer hygroscopic aerogels for atmospheric water harvesting. Nano Energy, 2021, 80, 105569.	8.2	99
11	Birefringent Silk Fibroin Hydrogel Constructed via Binary Solvent-Exchange-Induced Self-Assembly. Biomacromolecules, 2021, 22, 1955-1965.	2.6	16
12	Metamodeling of constitutive model using Gaussian process machine learning. Journal of the Mechanics and Physics of Solids, 2021, 154, 104532.	2.3	17
13	Data-Driven Approaches Toward Smarter Additive Manufacturing. Advanced Intelligent Systems, 2021, 3, 2100014.	3.3	21
14	Design and Production of Customizable and Highly Aligned Fibrillar Collagen Scaffolds. ACS Biomaterials Science and Engineering, 2021, .	2.6	2
15	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
16	Conformational Freedom-Enhanced Optomechanical Energy Conversion Efficiency in Bulk Azo-Polyimides (Adv. Funct. Mater. 45/2021). Advanced Functional Materials, 2021, 31, .	7.8	2
17	Strengthening the Sustainability of Additive Manufacturing through Data-Driven Approaches and Workforce Development. Advanced Intelligent Systems, 2021, 3, 2100069.	3.3	8
18	A review on low dimensional carbon desalination and gas separation membrane designs. Journal of Membrane Science, 2020, 598, 117785.	4.1	64

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19	Investigations on different two-dimensional materials as slit membranes for enhanced desalination. <i>Journal of Membrane Science</i> , 2020, 598, 117653.	4.1	32
20	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
21	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
22	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
23	Wood-Derived Carbon with Selectively Introduced C=O Groups toward Stable and High Capacity Anodes for Sodium Storage. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 27499-27507.	4.0	75
24	Silica Aerogels: A Review of Molecular Dynamics Modelling and Characterization of the Structural, Thermal, and Mechanical Properties. , 2020, , 1575-1595.		7
25	Tuning the structure of monomeric amyloid beta peptide by the curvature of carbon nanotubes. <i>Carbon</i> , 2019, 153, 717-724.	5.4	14
26	Conductive Silk-Based Composites Using Biobased Carbon Materials. <i>Advanced Materials</i> , 2019, 31, e1904720.	11.1	52
27	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
28	Multiscale Modeling of Silk and Silk-Based Biomaterials—A Review. <i>Macromolecular Bioscience</i> , 2019, 19, 1970007.	2.1	12
29	Dynamic pigmentary and structural coloration within cephalopod chromatophore organs. <i>Nature Communications</i> , 2019, 10, 1004.	5.8	105
30	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
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	Paraffin-enabled graphene transfer. <i>Nature Communications</i> , 2019, 10, 867.	5.8	185
33	Multiscale Design of Graphyne-Based Materials for High-Performance Separation Membranes. <i>Advanced Materials</i> , 2019, 31, e1805665.	11.1	30
34	Multiscale Modeling of Silk and Silk-Based Biomaterials—A Review. <i>Macromolecular Bioscience</i> , 2019, 19, e1800253.	2.1	40
35	Effects of oscillating pressure on desalination performance of transverse flow CNT membrane. <i>Desalination</i> , 2019, 451, 35-44.	4.0	10
36	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

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37	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
38	Materials-by-design: computation, synthesis, and characterization from atoms to structures. <i>Physica Scripta</i> , 2018, 93, 053003.	1.2	32
39	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
40	High-strength, Durable All-Silk Fibroin Hydrogels with Versatile Processability toward Multifunctional Applications. <i>Advanced Functional Materials</i> , 2018, 28, 1704757.	7.8	133
41	Fabrication and Characterization of Recombinant Silk-Elastin-Like-Protein (SELP) Fiber. <i>Macromolecular Bioscience</i> , 2018, 18, e1800265.	2.1	26
42	Silica Aerogels: A Review of Molecular Dynamics Modelling and Characterization of the Structural, Thermal, and Mechanical Properties. , 2018, , 1-21.		1
43	Numerical study of surface agglomeration of ultraviolet-curable polymeric ink and its control during 3D nanoinkjet printing process. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018, 56, 1615-1624.	2.4	3
44	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
45	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
46	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
47	Carbon nanoscroll-silk crystallite hybrid structures with controllable hydration and mechanical properties. <i>Nanoscale</i> , 2017, 9, 9181-9189.	2.8	21
48	Unusually low and density-insensitive thermal conductivity of three-dimensional gyroid graphene. <i>Nanoscale</i> , 2017, 9, 13477-13484.	2.8	38
49	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
50	Free-standing graphene slit membrane for enhanced desalination. <i>Carbon</i> , 2016, 110, 350-355.	5.4	44
51	Effects of Nanoporosity on the Mechanical Properties and Applications of Aerogels in Composite Structures. , 2016, , 97-126.		0
52	Molecular dynamics modelling of EGCG clusters on ceramide bilayers. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	0
53	Peptide-Graphene Interactions Enhance the Mechanical Properties of Silk Fibroin. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 21787-21796.	4.0	64
54	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

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55	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
56	Determination of the Young's modulus of silica aerogels – an analytical–numerical approach. <i>Soft Matter</i> , 2013, 9, 11367.	1.2	38
57	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
58	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
59	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
60	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
61	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
62	Conformational Freedom–Enhanced Optomechanical Energy Conversion Efficiency in Bulk Azo–Polyimides. <i>Advanced Functional Materials</i> , 0, , 2104414.	7.8	4