

Xinxiang Zhang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Solâ€“Gel Preparation of PDMS/Silica Hybrid Antireflective Coatings with Controlled Thickness and Durable Antireflective Performance. <i>Journal of Physical Chemistry C</i> , 2010, 114, 19979-19983.	3.1	101
2	Facile method for the hydrophobic modification of filter paper for applications in water-oil separation. <i>Surface and Coatings Technology</i> , 2018, 352, 313-319.	4.8	46
3	Ultra-lightweight cellulose foam material: preparation and properties. <i>Cellulose</i> , 2017, 24, 1417-1426.	4.9	45
4	Preparation of highly hydrophobic and anti-fouling wood using poly(methylhydrogen)siloxane. <i>Cellulose</i> , 2018, 25, 7341-7353.	4.9	45
5	A one-pot solâ€“gel process to prepare a superhydrophobic and environment-resistant thin film from ORMOSIL nanoparticles. <i>RSC Advances</i> , 2014, 4, 9838.	3.6	41
6	Three-layer tri-wavelength broadband antireflective coatings built from refractive indices controlled silica thin films. <i>Journal of Sol-Gel Science and Technology</i> , 2016, 80, 1-9.	2.4	41
7	Fabrication of transparent and durable superhydrophobic polysiloxane/SiO ₂ coating on the wood surface. <i>Cellulose</i> , 2021, 28, 3745-3758.	4.9	37
8	Dehydrogenation-driven assembly of transparent and durable superhydrophobic ORMOSIL coatings on cellulose-based substrates. <i>Cellulose</i> , 2020, 27, 7805-7821.	4.9	34
9	Insight into the Organicâ€“Inorganic Hybrid and Microstructure Tailor Mechanism of Solâ€“Gel ORMOSIL Antireflective Coatings. <i>Journal of Physical Chemistry C</i> , 2018, 122, 596-603.	3.1	31
10	Characterization of sol-gel ORMOSIL antireflective coatings from phenyltriethoxysilane and tetraethoxysilane: Microstructure control and application. <i>Surface and Coatings Technology</i> , 2018, 345, 177-182.	4.8	30
11	Sol-gel preparation of self-cleaning SiO ₂ -TiO ₂ /SiO ₂ -TiO ₂ double-layer antireflective coating for solar glass. <i>Results in Physics</i> , 2018, 8, 532-536.	4.1	30
12	Preparation and characterization of polyvinyl butyral/silica hybrid antireflective coating: effect of PVB on moisture-resistance and hydrophobicity. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 53, 79-84.	2.4	26
13	Fabrication of Hydrophobic ZnO/PMHS Coatings on Bamboo Surfaces: The Synergistic Effect of ZnO and PMHS on Anti-Mildew Properties. <i>Coatings</i> , 2019, 9, 15.	2.6	25
14	Ultra-fast surface hydrophobic modification of solâ€“gel silica antireflective coating with enhanced abrasion-resistance. <i>Materials Letters</i> , 2013, 104, 31-33.	2.6	24
15	Key Improvements in Interfacial Adhesion and Dispersion of Fibers/Fillers in Polymer Matrix Composites; Focus on PLA Matrix Composites. <i>Composite Interfaces</i> , 2022, 29, 1071-1120.	2.3	24
16	Hydrophobic Modification of Nanocellulose via a Two-Step Silanation Method. <i>Polymers</i> , 2018, 10, 1035.	4.5	23
17	Highly Hydrophobic Cotton Fabrics Modified by Poly(methylhydrogen)siloxane and Fluorinated Olefin: Characterization and Applications. <i>Polymers</i> , 2020, 12, 833.	4.5	21
18	Solâ€“gel preparation of antireflective coatings at 351nm with different thickness and improved moisture-resistance. <i>Journal of Sol-Gel Science and Technology</i> , 2011, 58, 340-344.	2.4	20

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19	Non-supercritical drying sol-gel preparation of superhydrophobic aerogel ORMOSIL thin films with controlled refractive index. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 74, 594-602.	2.4	18
20	Surface Hydrophobic Modification of Microcrystalline Cellulose by Poly(methylhydro)siloxane Using Response Surface Methodology. <i>Polymers</i> , 2018, 10, 1335.	4.5	15
21	Superhydrophobic materials with good oil/water separation and self-cleaning property. <i>Cellulose</i> , 2021, 28, 10425-10439.	4.9	15
22	Sol-gel preparation of fluoro-containing ORMOSIL antireflective coating with resistance simultaneously to hydrophilic and oleophilic pollutants. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 74, 698-706.	2.4	14
23	Preparation of SiO ₂ nanoparticles with adjustable size for fabrication of SiO ₂ /PMHS ORMOSIL superhydrophobic surface on cellulose-based substrates. <i>Progress in Organic Coatings</i> , 2020, 138, 105384.	3.9	14
24	Refractive-tunable and hydrophobic antireflective coatings by PMHS-modification assisted sol-gel method. <i>Materials Letters</i> , 2017, 186, 123-126.	2.6	13
25	Surface Modification of Sol-Gel Silica Antireflective Coatings by F-PMHS: A Simple Method for Improvement of Amphiphobicity. <i>Coatings</i> , 2018, 8, 57.	2.6	13
26	In Situ Fabrication of a Superhydrophobic ORMOSIL Coating on Wood by an Ammonia-HMDS Vapor Treatment. <i>Coatings</i> , 2019, 9, 556.	2.6	13
27	Environment-resistant fluoro-containing antireflective coatings for high-powered laser systems. <i>RSC Advances</i> , 2014, 4, 48872-48875.	3.6	12
28	SiO ₂ -ORMOSIL double-layered broadband antireflective coating for high-power laser system. <i>Journal of Sol-Gel Science and Technology</i> , 2016, 79, 558-563.	2.4	12
29	A simple method to control the microstructure and properties of sol-gel silica antireflective coatings. <i>RSC Advances</i> , 2017, 7, 31950-31959.	3.6	12
30	Hydrophobic wood flour derived from a novel p-TsOH treatment for improving interfacial compatibility of wood/HDPE composites. <i>Cellulose</i> , 2020, 27, 4053-4065.	4.9	12
31	Effect of poly(methylhydrogen)siloxane modification on adjusting mechanical properties of bamboo flour-reinforced HDPE composites. <i>Cellulose</i> , 2021, 28, 5463.	4.9	9
32	Facile Fabrication of Fluorine-Free, Anti-Icing, and Multifunctional Superhydrophobic Surface on Wood Substrates. <i>Polymers</i> , 2022, 14, 1953.	4.5	9
33	Effect of TDI-Assisted Hydrophobic Surface Modification of Microcrystalline Cellulose on the Tensile Fracture of MCC/PLA Composite, and Estimation of the Degree of Substitution by Linear Regression. <i>Langmuir</i> , 2021, 37, 793-801.	3.5	8
34	Focus on moisture-resistance and hydrophobicity of SiO ₂ antireflective film improved by poly(isopropylene oxide) glycerolether. <i>Journal of Sol-Gel Science and Technology</i> , 2011, 60, 11-16.	2.4	6
35	Design and sol-gel preparation of a six-layer tri-wavelength ORMOSIL antireflective coating for a high power laser system. <i>RSC Advances</i> , 2016, 6, 31769-31774.	3.6	6
36	An Effective, Economical and Ultra-Fast Method for Hydrophobic Modification of NCC Using Poly(Methylhydrogen)Siloxane. <i>Polymers</i> , 2019, 11, 963.	4.5	6

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37	Environment-Friendly and Two-Component Method for Fabrication of Highly Hydrophobic Wood Using Poly(methylhydrogen)siloxane. <i>Polymers</i> , 2021, 13, 124.	4.5	4
38	Processing pulp fiber into high strength composites. <i>Composite Interfaces</i> , 0, , 1-15.	2.3	1