

Xiaodong Wang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3666181/publications.pdf>

Version: 2024-02-01

69
papers

1,939
citations

257450

24
h-index

276875

41
g-index

70
all docs

70
docs citations

70
times ranked

2040
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal oxide aerogels for high-temperature applications. Journal of Sol-Gel Science and Technology, 2023, 106, 360-380.	2.4	15
2	UV resistance of sol-gel hydrophobic silica antireflective coatings. Journal of Sol-Gel Science and Technology, 2023, 106, 381-392.	2.4	3
3	Aqueous-based, high-density nanoporous carbon xerogels with high specific surface area for supercapacitors. Journal of Porous Materials, 2022, 29, 87-95.	2.6	5
4	Embedding constructed refractive index graded antireflective coating with high abrasion resistance and environmental stability for polycarbonate glass. Journal of Colloid and Interface Science, 2022, 608, 13-21.	9.4	8
5	Hydrothermal self-assembled Fe ₃ O ₄ /CA core-shell composites for broadband microwave absorption. Journal of Magnetism and Magnetic Materials, 2022, 541, 168511.	2.3	9
6	Preparation protocol of urea cross-linked chitosan aerogels with improved mechanical properties using aqueous aluminum ion medium. Journal of Supercritical Fluids, 2022, 179, 105414.	3.2	9
7	A quasi-solid asymmetric supercapacitor based on MnO ₂ -coated and N-doped pinecone porous carbon. Journal of Materials Science: Materials in Electronics, 2022, 33, 1899-1909.	2.2	3
8	Al ³⁺ coordinated chitosan hydrogel with ultrahigh water absorbency and environmental response. Materials and Design, 2022, 214, 110390.	7.0	11
9	Organic/inorganic double-precursor cross-linked alumina aerogel with high specific surface area and high-temperature resistance. Ceramics International, 2022, 48, 17261-17269.	4.8	9
10	3D flame-retardant skeleton reinforced polymer electrolyte for solid-state dendrite-free lithium metal batteries. Journal of Energy Chemistry, 2022, 71, 174-181.	12.9	30
11	Silver Nanoparticle-Decorated Chitosan Aerogels as Three-Dimensional Porous Surface-Enhanced Raman Scattering Substrates for Ultrasensitive Detection. ACS Applied Nano Materials, 2022, 5, 5398-5406.	5.0	4
12	Cellulose-reinforced poly(cyclocarbonate-ether)-based composite polymer electrolyte and facile gel interfacial modification for solid-state lithium-ion batteries. Chemical Engineering Journal, 2022, 446, 137194.	12.7	27
13	MoS ₂ nanosheet loaded Fe ₂ O ₃ @ carbon cloth flexible composite electrode material for quasi-solid asymmetric supercapacitors. Journal of Electroanalytical Chemistry, 2022, 919, 116556.	3.8	7
14	A Facile Method for Fabricating a Monolithic Mullite Fiber-Reinforced Alumina Aerogel with Excellent Mechanical and Thermal Properties. Gels, 2022, 8, 380.	4.5	5
15	Active biochar support nano zero-valent iron for efficient removal of U(VI) from sewage water. Journal of Alloys and Compounds, 2021, 852, 156993.	5.5	86
16	Research progress and application prospect of solid-state electrolytes in commercial lithium-ion power batteries. Energy Storage Materials, 2021, 35, 70-87.	18.0	126
17	Applying multi-scale silica-like three-dimensional networks in a PEO matrix <i>via in situ</i> crosslinking for high-performance solid composite electrolytes. Materials Chemistry Frontiers, 2021, 5, 7767-7777.	5.9	18
18	Fabrication of methyl acrylate modified silica aerogel for capture of Cu ²⁺ from aqueous solutions. Journal of Sol-Gel Science and Technology, 2021, 98, 389-400.	2.4	10

#	ARTICLE	IF	CITATIONS
19	Moisture-resistant and Mechanically Strong Polyimide-polymethylsilsesquioxane Hybrid Aerogels with Tunable Microstructure. <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2000612.	3.6	6
20	Properties improvement of linear polyimide aerogels via formation of doubly cross-linked polyimide-polyvinylpolymethylsiloxane network structure. <i>Journal of Non-Crystalline Solids</i> , 2021, 559, 120679.	3.1	8
21	Polyaniline-supported Al-doped MnO ₂ @carbon cloth-based electrode material for quasi-solid-state flexible supercapacitor. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 19820-19831.	2.2	5
22	Alumina-Doped Silica Aerogels for High-Temperature Thermal Insulation. <i>Gels</i> , 2021, 7, 122.	4.5	6
23	Multipath conduction and large capacity silicon-based anodes for high stabilizing lithium-ion batteries. <i>Applied Surface Science</i> , 2021, 557, 149860.	6.1	19
24	Novel electrode design of three-dimensional carbon foam modified with MnO ₂ nanosheet arrays for high-performance quasi-solid supercapacitor. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 26555-26566.	2.2	6
25	Two-dimensional Mg-doped MnO ₂ @ carbon cloth nanosheets for high performance typical flexible solid supercapacitor. <i>Journal of Alloys and Compounds</i> , 2021, 877, 160243.	5.5	34
26	Influence of diamine rigidity and dianhydride rigidity on the microstructure, thermal and mechanical properties of cross-linked polyimide aerogels. <i>Journal of Porous Materials</i> , 2021, 28, 717-725.	2.6	3
27	Two-stage no-wait hybrid flow-shop scheduling with sequence-dependent setup times. <i>International Journal of Systems Science: Operations and Logistics</i> , 2020, 7, 291-307.	3.0	7
28	An energy-efficient two-stage hybrid flow shop scheduling problem in a glass production. <i>International Journal of Production Research</i> , 2020, 58, 2283-2314.	7.5	73
29	Performance of high-temperature thermosetting polyimide composites modified with thermoplastic polyimide. <i>Polymer Testing</i> , 2020, 90, 106746.	4.8	30
30	3D porous MnO ₂ @carbon nanosheet synthesized from rambutan peel for high-performing supercapacitor electrodes materials. <i>Applied Surface Science</i> , 2020, 530, 147230.	6.1	83
31	A high energy density flexible symmetric supercapacitor based on Al-doped MnO ₂ nanosheets @ carbon cloth electrode materials. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 16027-16036.	2.2	9
32	Superhydrophobic highly flexible doubly cross-linked aerogel/carbon nanotube composites as strain/pressure sensors. <i>Journal of Materials Chemistry B</i> , 2020, 8, 4883-4889.	5.8	25
33	Promising High-Performance Supercapacitor Electrode Materials from MnO ₂ Nanosheets@Bamboo Leaf Carbon. <i>ACS Omega</i> , 2020, 5, 16299-16306.	3.5	42
34	Anion-regulated selective growth ultrafine copper templates in carbon nanosheets network toward highly efficient gas capture. <i>Journal of Colloid and Interface Science</i> , 2020, 564, 296-302.	9.4	17
35	Superelastic Triple-Network Polyorganosiloxane-Based Aerogels as Transparent Thermal Superinsulators and Efficient Separators. <i>Chemistry of Materials</i> , 2020, 32, 1595-1604.	6.7	57
36	A flexible high-performance symmetric quasi-solid supercapacitor based on Ni-doped MnO ₂ nano-array @ carbon cloth. <i>Electrochimica Acta</i> , 2020, 348, 136209.	5.2	52

#	ARTICLE	IF	CITATIONS
37	Effect of different chemical liquid deposition methods on the microstructure and properties of polyimide-polyvinylpolymethylsiloxane composite aerogels. <i>Journal of Supercritical Fluids</i> , 2020, 160, 104811.	3.2	8
38	Metal Cation-Assisted Synthesis of Amorphous B, N Co-Doped Carbon Nanotubes for Superior Sodium Storage. <i>Small</i> , 2020, 16, e2001607.	10.0	35
39	Adsorption of cationic dyes from aqueous solution using hydrophilic silica aerogel via ambient pressure drying. <i>Chinese Journal of Chemical Engineering</i> , 2020, 28, 2467-2473.	3.5	22
40	Resilient, fire-retardant and mechanically strong polyimide-polyvinylpolymethylsiloxane composite aerogel prepared via stepwise chemical liquid deposition. <i>Materials and Design</i> , 2019, 183, 108096.	7.0	38
41	Porous alumina aerogel with tunable pore structure for facile, ultrasensitive, and reproducible SERS platform. <i>Journal of Raman Spectroscopy</i> , 2019, 50, 1429-1437.	2.5	13
42	Surface free energy and microstructure dependent environmental stability of sol-gel SiO ₂ antireflective coatings: Effect of combined vapor phase surface treatment. <i>Journal of Colloid and Interface Science</i> , 2019, 555, 124-131.	9.4	20
43	Low-Temperature Preparation of Mechanically Robust and Contamination-Resistant Antireflective Coatings for Flexible Polymeric Glasses via Embedding of Silica Nanoparticles and HMDS Modification. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 37084-37093.	8.0	18
44	Ambient Pressure-Dried Graphene-Composite Carbon Aerogel for Capacitive Deionization. <i>Processes</i> , 2019, 7, 29.	2.8	18
45	Durable silica antireflective coating prepared by combined treatment of ammonia and KH570 vapor. <i>Journal of Coatings Technology Research</i> , 2019, 16, 615-622.	2.5	10
46	Preparation of Carbon Aerogel Electrode for Electrosorption of Copper Ions in Aqueous Solution. <i>Materials</i> , 2019, 12, 1864.	2.9	24
47	Synthesis of highly cross-linked uniform polyurea aerogels. <i>Journal of Supercritical Fluids</i> , 2019, 151, 8-14.	3.2	5
48	Highly Porous Carbon Xerogels Doped with Cuprous Chloride for Effective CO Adsorption. <i>ACS Omega</i> , 2019, 4, 6138-6143.	3.5	11
49	A positive-negative alternate adsorption effect for capacitive deionization in nano-porous carbon aerogel electrodes to enhance desalination capacity. <i>Desalination</i> , 2019, 458, 45-53.	8.2	51
50	Opacifier embedded and fiber reinforced alumina-based aerogel composites for ultra-high temperature thermal insulation. <i>Ceramics International</i> , 2019, 45, 644-650.	4.8	70
51	A Bi-Objective Vehicle-Routing Problem with Soft Time Windows and Multiple Depots to Minimize the Total Energy Consumption and Customer Dissatisfaction. <i>Sustainability</i> , 2018, 10, 4257.	3.2	10
52	Silica Aerogel Monoliths Derived from Silica Hydrosol with Various Surfactants. <i>Molecules</i> , 2018, 23, 3192.	3.8	7
53	Cast-In-Situ, Large-Sized Monolithic Silica Xerogel Prepared in Aqueous System. <i>Molecules</i> , 2018, 23, 1178.	3.8	3
54	Sol-Gel Preparation of Laser Damage Resistant and Moisture-Proof Antireflective Coatings for KDP Crystals. <i>Langmuir</i> , 2018, 34, 10262-10269.	3.5	28

#	ARTICLE	IF	CITATIONS
55	Environmental Stable SiO ₂ Antireflective Coating Modified via NH ₃ /HTMS Vapor Phase Treatment. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2018, 33, 1219.	1.3	7
56	Homogeneous deposition of Ni(OH) ₂ onto cellulose-derived carbon aerogels for low-cost energy storage electrodes. <i>RSC Advances</i> , 2017, 7, 10583-10591.	3.6	12
57	Highly thermally stable alumina-based aerogels modified by partially hydrolyzed aluminum tri-sec-butoxide. <i>Journal of Sol-Gel Science and Technology</i> , 2017, 84, 507-514.	2.4	28
58	Preparation and stress evolution of sol-gel SiO ₂ antireflective coatings for small-size anisotropic lithium triborate crystals. <i>AIP Advances</i> , 2016, 6, .	1.3	8
59	Nanocellulose-derived highly porous carbon aerogels for supercapacitors. <i>Carbon</i> , 2016, 99, 203-211.	10.3	226
60	Valence Band Splitting in Wurtzite InGaAs Nanoneedles Studied by Photoluminescence Excitation Spectroscopy. <i>ACS Nano</i> , 2014, 8, 11440-11446.	14.6	10
61	Effect of crystal structure on optical properties of sol-gel derived zirconia thin films. <i>Journal of Alloys and Compounds</i> , 2013, 556, 182-187.	5.5	29
62	Thermal Annealing Effect on Optical Properties of Binary TiO ₂ -SiO ₂ Sol-Gel Coatings. <i>Materials</i> , 2013, 6, 76-84.	2.9	44
63	Optical Constants of Crystallized TiO ₂ Coatings Prepared by Sol-Gel Process. <i>Materials</i> , 2013, 6, 2819-2830.	2.9	87
64	Study on Hexagonal Mesoporous Silica Film for Antireflective Coating. <i>Key Engineering Materials</i> , 2012, 509, 74-81.	0.4	0
65	Improvement on laser-induced damage threshold of sol-gel ZrO ₂ coatings by crystal structure tuning. <i>Optics Express</i> , 2012, 20, 24482.	3.4	16
66	A review of contamination-resistant antireflective sol-gel coatings. <i>Journal of Sol-Gel Science and Technology</i> , 2012, 61, 206-212.	2.4	49
67	Raman spectroscopy of sol-gel derived titanium oxide thin films. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 1578-1582.	2.5	68
68	Sol-gel derived durable antireflective coating for solar glass. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 53, 322-327.	2.4	90
69	Fluoride removal performance of highly porous activated alumina. <i>Journal of Sol-Gel Science and Technology</i> , 0, , 1.	2.4	7