

Bernd Wicklein

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

2,640
citations

279798

23
h-index

254184

43
g-index

50
all docs

50
docs citations

50
times ranked

3951
citing authors

#	ARTICLE	IF	CITATIONS
1	Populus alba L., an Autochthonous Species of Spain: A Source for Cellulose Nanofibers by Chemical Pretreatment. <i>Polymers</i> , 2022, 14, 68.	4.5	4
2	Microstructure-property relationships in composites of 8YSZ ceramics and in situ graphitized nanocellulose. <i>Journal of the European Ceramic Society</i> , 2022, 42, 4594-4606.	5.7	1
3	Triggering the aqueous interparticle association of Al_2O_3 hierarchical assemblies using divalent cations and cellulose nanofibers. <i>Journal of the European Ceramic Society</i> , 2021, 41, 590-598.	5.7	3
4	Freeze-casting of highly porous cellulose-nanofiber-reinforced Al_2O_3 monoliths. <i>Open Ceramics</i> , 2021, 5, 100069.	2.0	4
5	Cellulose nanofibers as substrate for flexible and biodegradable moisture sensors. <i>Composites Science and Technology</i> , 2021, 208, 108738.	7.8	44
6	Chemical, Thermal and Antioxidant Properties of Lignins Solubilized during Soda/AQ Pulping of Orange and Olive Tree Pruning Residues. <i>Molecules</i> , 2021, 26, 3819.	3.8	12
7	Properties versus application requirements of solubilized lignins from an elm clone during different pre-treatments. <i>International Journal of Biological Macromolecules</i> , 2021, 181, 99-111.	7.5	13
8	Production of Microfibrillated Cellulose from Fast-Growing Poplar and Olive Tree Pruning by Physical Pretreatment. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6445.	2.5	9
9	Progress and innovation of nanostructured sulfur cathodes and metal-free anodes for room-temperature Na-S batteries. <i>Beilstein Journal of Nanotechnology</i> , 2021, 12, 995-1020.	2.8	1
10	Hydrophobic composite foams based on nanocellulose-sepiolite for oil sorption applications. <i>Journal of Hazardous Materials</i> , 2021, 417, 126068.	12.4	31
11	Shape-Conformable, Eco-Friendly Cellulose Aerogels as High-Performance Battery Separators. <i>ACS Applied Energy Materials</i> , 2021, 4, 763-774.	5.1	10
12	Functional biohybrid materials based on halloysite, sepiolite and cellulose nanofibers for health applications. <i>Dalton Transactions</i> , 2020, 49, 3830-3840.	3.3	45
13	Nanotechnology Responses to COVID-19. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000979.	7.6	128
14	Research and Patents on Coronavirus and COVID-19: A Review. <i>Recent Patents on Nanotechnology</i> , 2020, 14, 328-350.	1.3	6
15	Multicomponent bionanocomposites based on clay nanoarchitectures for electrochemical devices. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 1303-1315.	2.8	19
16	Chemical and thermal analysis of lignin streams from Robinia pseudoacacia L. generated during organosolv and acid hydrolysis pre-treatments and subsequent enzymatic hydrolysis. <i>International Journal of Biological Macromolecules</i> , 2019, 140, 311-322.	7.5	23
17	CLAY-BASED BIOHYBRID MATERIALS FOR BIOMEDICAL AND PHARMACEUTICAL APPLICATIONS. <i>Clays and Clay Minerals</i> , 2019, 67, 44-58.	1.3	16
18	Biorefinery of Lignocellulosic Biomass from an Elm Clone: Production of Fermentable Sugars and Lignin-Derived Biochar for Energy and Environmental Applications. <i>Energy Technology</i> , 2019, 7, 277-287.	3.8	24

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19	Characterization of lignins from <i>Populus alba</i> L. generated as by-products in different transformation processes: Kraft pulping, organosolv and acid hydrolysis. <i>International Journal of Biological Macromolecules</i> , 2019, 126, 18-29.	7.5	54
20	All-natural and highly flame-resistant freeze-cast foams based on phosphorylated cellulose nanofibrils. <i>Nanoscale</i> , 2018, 10, 4085-4095.	5.6	87
21	<i>In situ</i> generation of 3D graphene-like networks from cellulose nanofibres in sintered ceramics. <i>Nanoscale</i> , 2018, 10, 10488-10497.	5.6	13
22	Modulation of Inorganic Matrices for Functional Nanoarchitectures Fabrication: The Simultaneous Effect of Moisture and Temperature in the Preparation of Metakaolin Based Geopolymers. <i>Bulletin of the Chemical Society of Japan</i> , 2018, 91, 1158-1167.	3.2	4
23	Dual-Fiber Approach toward Flexible Multifunctional Hybrid Materials. <i>Advanced Functional Materials</i> , 2018, 28, 1704274.	14.9	26
24	Assessing cellulose nanofiber production from olive tree pruning residue. <i>Carbohydrate Polymers</i> , 2018, 179, 252-261.	10.2	80
25	Electrochromism: Dual-Fiber Approach toward Flexible Multifunctional Hybrid Materials (<i>Adv. Funct. Mater.</i>)	14.9	0
26	The Fascinating World of the Functional Hybrid and Biohybrid Materials. <i>Advanced Functional Materials</i> , 2018, 28, 1803407.	14.9	2
27	Nanostructured carbon-metal hybrid aerogels from bacterial cellulose. <i>RSC Advances</i> , 2017, 7, 42203-42210.	3.6	9
28	Guest editors' preface. <i>Journal of Materials Science</i> , 2017, 52, 11121-11123.	3.7	0
29	Clay-lipid nanohybrids: towards influenza vaccines and beyond. <i>Clay Minerals</i> , 2016, 51, 529-538.	0.6	8
30	Stabilizing nanocellulose-nonionic surfactant composite foams by delayed Ca-induced gelation. <i>Journal of Colloid and Interface Science</i> , 2016, 472, 44-51.	9.4	47
31	Tuning the Nanocellulose-Borate Interaction To Achieve Highly Flame Retardant Hybrid Materials. <i>Chemistry of Materials</i> , 2016, 28, 1985-1989.	6.7	103
32	Functional Nanocomposites Based on Fibrous Clays. <i>RSC Smart Materials</i> , 2016, , 1-53.	0.1	6
33	The Use of ATR-FTIR Spectroscopy for Quantification of Adsorbed Compounds. <i>Journal of Spectroscopy</i> , 2015, 2015, 1-8.	1.3	57
34	Confined self-assembly of cellulose nanocrystals in a shrinking droplet. <i>Soft Matter</i> , 2015, 11, 5374-5380.	2.7	40
35	Thermally insulating and fire-retardant lightweight anisotropic foams based on nanocellulose and graphene oxide. <i>Nature Nanotechnology</i> , 2015, 10, 277-283.	31.5	1,103
36	THE MINERALOGY, GEOLOGY AND OCCURRENCES OF HALLOYSITE. , 2015, , 121-142.		0

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37	Recent Advances on Fibrous Clay-Based Nanocomposites. <i>Advances in Polymer Science</i> , 2014, , 39-86.	0.8	25
38	Omnidispersible poly(ionic liquid)-functionalized cellulose nanofibrils: surface grafting and polymer membrane reinforcement. <i>Chemical Communications</i> , 2014, 50, 12486-12489.	4.1	35
39	Hierarchically structured bioactive foams based on polyvinyl alcohol-sepiolite nanocomposites. <i>Journal of Materials Chemistry B</i> , 2013, 1, 2911.	5.8	25
40	Functional hybrids based on biogenic nanofibrils and inorganic nanomaterials. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5469.	10.3	58
41	Fibrous clays based bionanocomposites. <i>Progress in Polymer Science</i> , 2013, 38, 1392-1414.	24.7	209
42	Biomimetic Architectures for the Impedimetric Discrimination of Influenza Virus Phenotypes. <i>Advanced Functional Materials</i> , 2013, 23, 254-262.	14.9	27
43	Lipid-Based Bio-Nanohybrids for Functional Stabilisation of Influenza Vaccines. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 5186-5191.	2.0	30
44	Advanced biohybrid materials based on nanoclays for biomedical applications. <i>Proceedings of SPIE</i> , 2012, , .	0.8	9
45	Phospholipid-Sepiolite Biomimetic Interfaces for the Immobilization of Enzymes. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 4339-4348.	8.0	51
46	Multifunctional Porous Materials Through Ferrofluids. <i>Advanced Materials</i> , 2011, 23, 5224-5228.	21.0	42
47	Bio-organoclays Based on Phospholipids as Immobilization Hosts for Biological Species. <i>Langmuir</i> , 2010, 26, 5217-5225.	3.5	89