# Bernd Wicklein

List of Publications by Year
in descending order



| 47 | 2,640 | 279798 | 254184 |
|---|---|---|---|
| papers | citations | 23 h-index | 43 g-index |

| 50 | 50 | 50 | 3951 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Thermally insulating and fire-retardant lightweight anisotropic foams based on nanocellulose and graphene oxide. Nature Nanotechnology, 2015, 10, 277-283. | 31.5 | 1,103 |
| 2 | Fibrous clays based bionanocomposites. Progress in Polymer Science, 2013, 38, 1392-1414. | 24.7 | 209 |
| 3 | Nanotechnology Responses to COVIDâ€19. Advanced Healthcare Materials, 2020, 9, e2000979. | 7.6 | 128 |
| 4 | Tuning the Nanocelluloseâ€“Borate Interaction To Achieve Highly Flame Retardant Hybrid Materials. Chemistry of Materials, 2016, 28, 1985-1989. | 6.7 | 103 |
| 5 | Bio-organoclays Based on Phospholipids as Immobilization Hosts for Biological Species. Langmuir, 2010, 26, 5217-5225. | 3.5 | 89 |
| 6 | All-natural and highly flame-resistant freeze-cast foams based on phosphorylated cellulose nanofibrils. Nanoscale, 2018, 10, 4085-4095. | 5.6 | 87 |
| 7 | Assessing cellulose nanofiber production from olive tree pruning residue. Carbohydrate Polymers, 2018, 179, 252-261. | 10.2 | 80 |
| 8 | Functional hybrids based on biogenic nanofibrils and inorganic nanomaterials. Journal of Materials Chemistry A, 2013, 1, 5469. | 10.3 | 58 |
| 9 | The Use of ATR-FTIR Spectroscopy for Quantification of Adsorbed Compounds. Journal of Spectroscopy, 2015, 2015, 1-8. | 1.3 | 57 |
| 10 | Characterization of lignins from Populus alba L. generated as by-products in different transformation processes: Kraft pulping, organosolv and acid hydrolysis. International Journal of Biological Macromolecules, 2019, 126, 18-29. | 7.5 | 54 |
| 11 | Phospholipidâ€“Sepiolite Biomimetic Interfaces for the Immobilization of Enzymes. ACS Applied Materials & Interfaces, 2011, 3, 4339-4348. | 8.0 | 51 |
| 12 | Stabilizing nanocellulose-nonionic surfactant composite foams by delayed Ca-induced gelation. Journal of Colloid and Interface Science, 2016, 472, 44-51. | 9.4 | 47 |
| 13 | Functional biohybrid materials based on halloysite, sepiolite and cellulose nanofibers for health applications. Dalton Transactions, 2020, 49, 3830-3840. | 3.3 | 45 |
| 14 | Cellulose nanofibers as substrate for flexible and biodegradable moisture sensors. Composites Science and Technology, 2021, 208, 108738. | 7.8 | 44 |
| 15 | Multifunctional Porous Materials Through Ferrofluids. Advanced Materials, 2011, 23, 5224-5228. | 21.0 | 42 |
| 16 | Confined self-assembly of cellulose nanocrystals in a shrinking droplet. Soft Matter, 2015, 11, 5374-5380. | 2.7 | 40 |
| 17 | Omnidispersible poly(ionic liquid)-functionalized cellulose nanofibrils: surface grafting and polymer membrane reinforcement. Chemical Communications, 2014, 50, 12486-12489. | 4.1 | 35 |
| 18 | Hydrophobic composite foams based on nanocellulose-sepiolite for oil sorption applications. Journal of Hazardous Materials, 2021, 417, 126068. | 12.4 | 31 |

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|---|---|---|---|
| 19 | Lipidâ€Based Bioâ€Nanohybrids for Functional Stabilisation of Influenza Vaccines. European Journal of Inorganic Chemistry, 2012, 2012, 5186-5191. | 2.0 | 30 |
| 20 | Biomimetic Architectures for the Impedimetric Discrimination of Influenza Virus Phenotypes. Advanced Functional Materials, 2013, 23, 254-262. | 14.9 | 27 |
| 21 | Dualâ€Fiber Approach toward Flexible Multifunctional Hybrid Materials. Advanced Functional Materials, 2018, 28, 1704274. | 14.9 | 26 |
| 22 | Hierarchically structured bioactive foams based on polyvinyl alcoholâ€“sepiolite nanocomposites. Journal of Materials Chemistry B, 2013, 1, 2911. | 5.8 | 25 |
| 23 | Recent Advances on Fibrous Clay-Based Nanocomposites. Advances in Polymer Science, 2014, , 39-86. | 0.8 | 25 |
| 24 | Biorefinery of Lignocellulosic Biomass from an Elm Clone: Production of Fermentable Sugars and Ligninâ€Derived Biochar for Energy and Environmental Applications. Energy Technology, 2019, 7, 277-287. | 3.8 | 24 |
| 25 | Chemical and thermal analysis of lignin streams from Robinia pseudoacacia L. generated during organosolv and acid hydrolysis pre-treatments and subsequent enzymatic hydrolysis. International Journal of Biological Macromolecules, 2019, 140, 311-322. | 7.5 | 23 |
| 26 | Multicomponent bionanocomposites based on clay nanoarchitectures for electrochemical devices. Beilstein Journal of Nanotechnology, 2019, 10, 1303-1315. | 2.8 | 19 |
| 27 | CLAY-BASED BIOHYBRID MATERIALS FOR BIOMEDICAL AND PHARMACEUTICAL APPLICATIONS. Clays and Clay Minerals, 2019, 67, 44-58. | 1.3 | 16 |
| 28 | In situ generation of 3D graphene-like networks from cellulose nanofibres in sintered ceramics. Nanoscale, 2018, 10, 10488-10497. | 5.6 | 13 |
| 29 | Properties versus application requirements of solubilized lignins from an elm clone during different pre-treatments. International Journal of Biological Macromolecules, 2021, 181, 99-111. | 7.5 | 13 |
| 30 | Chemical, Thermal and Antioxidant Properties of Lignins Solubilized during Soda/AQ Pulping of Orange and Olive Tree Pruning Residues. Molecules, 2021, 26, 3819. | 3.8 | 12 |
| 31 | Shape-Conformable, Eco-Friendly Cellulose Aerogels as High-Performance Battery Separators. ACS Applied Energy Materials, 2021, 4, 763-774. | 5.1 | 10 |
| 32 | Advanced biohybrid materials based on nanoclays for biomedical applications. Proceedings of SPIE, 2012, , . | 0.8 | 9 |
| 33 | Nanostructured carbonâ€“metal hybrid aerogels from bacterial cellulose. RSC Advances, 2017, 7, 42203-42210. | 3.6 | 9 |
| 34 | Production of Microfibrillated Cellulose from Fast-Growing Poplar and Olive Tree Pruning by Physical Pretreatment. Applied Sciences (Switzerland), 2021, 11, 6445. | 2.5 | 9 |
| 35 | Clay-lipid nanohybrids: towards influenza vaccines and beyond. Clay Minerals, 2016, 51, 529-538. | 0.6 | 8 |
| 36 | Functional Nanocomposites Based on Fibrous Clays. RSC Smart Materials, 2016, , 1-53. | 0.1 | 6 |

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|---|---|---|---|
| 37 | Research and Patents on Coronavirus and COVID-19: A Review. Recent Patents on Nanotechnology, 2020, 14, 328-350. | 1.3 | 6 |
| 38 | Modulation of Inorganic Matrices for Functional Nanoarchitectures Fabrication: The Simultaneous Effect of Moisture and Temperature in the Preparation of Metakaolin Based Geopolymers. Bulletin of the Chemical Society of Japan, 2018, 91, 1158-1167. | 3.2 | 4 |
| 39 | Freeze-casting of highly porous cellulose-nanofiber-reinforced Î³Ë—Al2O3 monoliths. Open Ceramics, 2021, 5, 100069. | 2.0 | 4 |
| 40 | Populus alba L., an Autochthonous Species of Spain: A Source for Cellulose Nanofibers by Chemical Pretreatment. Polymers, 2022, 14, 68. | 4.5 | 4 |
| 41 | Triggering the aqueous interparticle association of Î³â€'Al2O3 hierarchical assemblies using divalent cations and cellulose nanofibers. Journal of the European Ceramic Society, 2021, 41, 590-598. | 5.7 | 3 |
| 42 | The Fascinating World of the Functional Hybrid andÂBiohybrid Materials. Advanced Functional Materials, 2018, 28, 1803407. | 14.9 | 2 |
| 43 | Progress and innovation of nanostructured sulfur cathodes and metal-free anodes for room-temperature Naâ€“S batteries. Beilstein Journal of Nanotechnology, 2021, 12, 995-1020. | 2.8 | 1 |
| 44 | Microstructure-property relationships in composites of 8YSZ ceramics and in situ graphitized nanocellulose. Journal of the European Ceramic Society, 2022, 42, 4594-4606. | 5.7 | 1 |
| 45 | Guest editorsâ€™ preface. Journal of Materials Science, 2017, 52, 11121-11123. | 3.7 | 0 |
| 46 | Electrochromism: Dual-Fiber Approach toward Flexible Multifunctional Hybrid Materials (Adv. Funct.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 | 14.9 | 0 |
| 47 | THE MINERALOGY, GEOLOGY AND OCCURRENCES OF HALLOYSITE. , 2015, , 121-142. | | 0 |