

Christof Neumann

List of Publications by Year in descending order

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Version: 2024-02-01

66
papers

1,337
citations

331670

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377865

34
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69
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docs citations

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times ranked

2024
citing authors

#	ARTICLE	IF	CITATIONS
1	Water-soluble Polymeric Carbon Nitride Colloidal Nanoparticles for Highly Selective Quasi-homogeneous Photocatalysis. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 487-495.	13.8	107
2	Tailoring Photoluminescence from MoS ₂ Monolayers by Mie-Resonant Metasurfaces. <i>ACS Photonics</i> , 2019, 6, 1002-1009.	6.6	82
3	Confined growth of porous nitrogen-doped cobalt oxide nanoarrays as bifunctional oxygen electrocatalysts for rechargeable zinc-air batteries. <i>Energy Storage Materials</i> , 2020, 26, 157-164.	18.0	79
4	High optical quality of MoS ₂ monolayers grown by chemical vapor deposition. <i>2D Materials</i> , 2020, 7, 015011.	4.4	76
5	Giant persistent photoconductivity in monolayer MoS ₂ field-effect transistors. <i>Npj 2D Materials and Applications</i> , 2021, 5, .	7.9	56
6	Layered material platform for surface plasmon resonance biosensing. <i>Scientific Reports</i> , 2019, 9, 20286.	3.3	55
7	Proton and Li-Ion Permeation through Graphene with Eight-Atom-Ring Defects. <i>ACS Nano</i> , 2020, 14, 7280-7286.	14.6	55
8	Poly(1,4-diethynylbenzene) Gradient Homojunction with Enhanced Charge Carrier Separation for Photoelectrochemical Water Reduction. <i>Advanced Materials</i> , 2019, 31, e1900961.	21.0	53
9	Controlled growth of transition metal dichalcogenide monolayers using Knudsen-type effusion cells for the precursors. <i>JPhys Materials</i> , 2019, 2, 016001.	4.2	49
10	Inhibition of Lithium Dendrite Formation in Lithium Metal Batteries via Regulated Cation Transport through Ultrathin Sub-nanometer Porous Carbon Nanomembranes. <i>Advanced Energy Materials</i> , 2021, 11, 2100666.	19.5	45
11	Tailoring the Mechanics of Ultrathin Carbon Nanomembranes by Molecular Design. <i>Langmuir</i> , 2014, 30, 8221-8227.	3.5	42
12	Molecular Engineering of Conjugated Acetylenic Polymers for Efficient Cocatalyst-free Photoelectrochemical Water Reduction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10368-10374.	13.8	42
13	1D p-n Junction Electronic and Optoelectronic Devices from Transition Metal Dichalcogenide Lateral Heterostructures Grown by One-pot Chemical Vapor Deposition Synthesis. <i>Advanced Functional Materials</i> , 2021, 31, 2101086.	14.9	38
14	Tribological performance of metal-reinforced ceramic composites selectively structured with femtosecond laser-induced periodic surface structures. <i>Applied Surface Science</i> , 2020, 499, 143917.	6.1	34
15	Scalable Functionalization of Optical Fibers Using Atomically Thin Semiconductors. <i>Advanced Materials</i> , 2020, 32, e2003826.	21.0	31
16	Identification of Semiconductive Patches in Thermally Processed Monolayer Oxo-functionalized Graphene. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13657-13662.	13.8	31
17	Thiophene-based Conjugated Acetylenic Polymers with Dual Active Sites for Efficient Cocatalyst-free Photoelectrochemical Water Reduction in Alkaline Medium. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 18876-18881.	13.8	28
18	Molecular Engineering of Conjugated Acetylenic Polymers for Efficient Cocatalyst-free Photoelectrochemical Water Reduction. <i>Angewandte Chemie</i> , 2019, 131, 10476-10482.	2.0	27

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19	Large-area fabrication of low- and high-spatial-frequency laser-induced periodic surface structures on carbon fibers. <i>Carbon</i> , 2018, 133, 176-185.	10.3	26
20	Copper Thiophosphate (Cu ₃ PS ₄) as Electrode for Sodium-Ion Batteries with Ether Electrolyte. <i>Advanced Functional Materials</i> , 2020, 30, 1910583.	14.9	25
21	Hybrid van der Waals heterostructures of zero-dimensional and two-dimensional materials. <i>Nanoscale</i> , 2015, 7, 13393-13397.	5.6	24
22	Bottom-Up Synthesis of Graphene Monolayers with Tunable Crystallinity and Porosity. <i>ACS Nano</i> , 2019, 13, 7310-7322.	14.6	24
23	Embedding molecular photosensitizers and catalysts in nanoporous block copolymer membranes for visible-light driven hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2020, 8, 6238-6244.	10.3	22
24	Low-energy electron irradiation induced synthesis of molecular nanosheets: influence of the electron beam energy. <i>Faraday Discussions</i> , 2021, 227, 61-79.	3.2	21
25	Lateral heterostructures of two-dimensional materials by electron-beam induced stitching. <i>Carbon</i> , 2018, 128, 106-116.	10.3	20
26	Polymer Brushes on Hexagonal Boron Nitride. <i>Small</i> , 2019, 15, 1805228.	10.0	18
27	Sol-Gel Processing of Water-Soluble Carbon Nitride Enables High-Performance Photoanodes**. <i>ChemSusChem</i> , 2021, 14, 2170-2179.	6.8	16
28	Molecularly Engineered Black Phosphorus Heterostructures with Improved Ambient Stability and Enhanced Charge Carrier Mobility. <i>Advanced Materials</i> , 2021, 33, e2105694.	21.0	16
29	The direct measurement of the electronic density of states of graphene using metastable induced electron spectroscopy. <i>2D Materials</i> , 2017, 4, 025068.	4.4	15
30	Preparation of Carbon Nanomembranes without Chemically Active Groups. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 31176-31181.	8.0	15
31	Water-Soluble Polymeric Carbon Nitride Colloidal Nanoparticles for Highly Selective Quasi-Homogeneous Photocatalysis. <i>Angewandte Chemie</i> , 2020, 132, 495-503.	2.0	15
32	Polyampholytic Poly(dehydroalanine) Graft Copolymers as Smart Templates for pH-Controlled Formation of Alloy Nanoparticles. <i>Macromolecules</i> , 2020, 53, 4511-4523.	4.8	14
33	Electrochemical delamination assisted transfer of molecular nanosheets. <i>Nanoscale</i> , 2020, 12, 8656-8663.	5.6	11
34	Optically Triggered Control of the Charge Carrier Density in Chemically Functionalized Graphene Field Effect Transistors. <i>Chemistry - A European Journal</i> , 2020, 26, 6473-6478.	3.3	10
35	Photocatalytically active block copolymer hybrid micelles from double hydrophilic block copolymers. <i>European Polymer Journal</i> , 2020, 140, 110037.	5.4	9
36	Polyampholytic Graft Copolymers as Matrix for TiO ₂ /Eosin Y/[Mo ₃ S ₁₃] ²⁺ Hybrid Materials and Light-Driven Catalysis. <i>Chemistry - A European Journal</i> , 2021, 27, 16924-16929.	3.3	9

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37	Wet-chemical synthesis of solution-processible porous graphene via defect-driven etching. Carbon, 2021, 185, 568-577.	10.3	9
38	Mechanochemically synthesized Cu ₃ P/C composites as a conversion electrode for Li-ion and Na-ion batteries in different electrolytes. Journal of Power Sources Advances, 2020, 6, 100031.	5.1	7
39	Plasmonic Metasurfaces Situated on Ultrathin Carbon Nanomembranes. ACS Photonics, 2020, 7, 1060-1066.	6.6	7
40	Aging processes in high voltage lithium-ion capacitors containing liquid and gel-polymer electrolytes. Journal of Power Sources, 2021, 496, 229797.	7.8	7
41	pH sensors based on amino-terminated carbon nanomembrane and single-layer graphene van der Waals heterostructures. Applied Physics Reviews, 2021, 8, 031410.	11.3	7
42	Towards synthetic unimolecular [Fe ₂ S ₂]-photocatalysts sensitized by perylene dyes. Dyes and Pigments, 2022, 198, 109940.	3.7	7
43	Fundamental properties of high-quality carbon nanofoam: from low to high density. Beilstein Journal of Nanotechnology, 2016, 7, 2065-2073.	2.8	6
44	A Molecular Photosensitizer in a Porous Block Copolymer Matrixâ€”Implications for the Design of Photocatalytically Active Membranes. Chemistry - A European Journal, 2021, 27, 17049-17058.	3.3	6
45	Rhodium-Complex-Functionalized and Polydopamine-Coated CdSe@CdS Nanorods for Photocatalytic NAD ⁺ Reduction. ACS Applied Nano Materials, 2021, 4, 12913-12919.	5.0	6
46	Towards Covalent Photosensitizer-Polyoxometalate Dyads-Bipyridyl-Functionalized Polyoxometalates and Their Transition Metal Complexes. Molecules, 2019, 24, 4446.	3.8	4
47	Oddâ€”Even Effect in Electron Beam Irradiation of Hybrid Aromaticâ€”Aliphatic Self-Assembled Monolayers of Fatty Acid. Journal of Physical Chemistry C, 2021, 125, 9310-9318.	3.1	4
48	A Study in Red: The Overlooked Role of Azoâ€”Moieties in Polymeric Carbon Nitride Photocatalysts with Strongly Extended Optical Absorption. Chemistry - A European Journal, 2021, 27, 17188-17202.	3.3	4
49	Scalable one-step production of electrochemically exfoliated graphene decorated with transition metal oxides for high-performance supercapacitors. Nanoscale, 2021, 13, 15859-15868.	5.6	4
50	Synthesis of Wetâ€”Chemically Prepared Porousâ€”Graphene Single Layers on Si/SiO ₂ Substrate Increasing the Photoluminescence of MoS ₂ in Heterostructures. Advanced Materials Interfaces, 2021, 8, 2100783.	3.7	3
51	Photoactive ultrathin molecular nanosheets with reversible lanthanide binding terpyridine centers. Nanoscale, 2021, 13, 20583-20591.	5.6	3
52	Polymer Brushes: Polymer Brushes on Hexagonal Boron Nitride (Small 19/2019). Small, 2019, 15, 1970099.	10.0	2
53	Thiophenâ€”basierte konjugierte acetylenische Polymere mit dualen aktiven Zentren fÃ¼r effiziente Cokatalysatorâ€”freie photoelektrochemische Wasserreduktion im alkalischen Medium. Angewandte Chemie, 2021, 133, 19025-19031.	2.0	2
54	Plowing-induced nanoexfoliation of mono- and multilayer MoS ₂ surfaces. Physical Review Materials, 2020, 4, .	2.4	2

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55	Synthesis and Nanoscale Characterization of Hierarchically Assembled Molecular Nanosheets. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	2
56	Tuning nanowire lasers <i>via</i> hybridization with two-dimensional materials. <i>Nanoscale</i> , 2022, 14, 6822-6829.	5.6	2
57	Scanning-Probe-Induced Assembling of Gold Striations on Mono- and Bi-Layered MoS ₂ on SiO ₂ . <i>MRS Advances</i> , 2020, 5, 2201-2207.	0.9	1
58	Two-Dimensional Photosensitizer Nanosheets via Low-Energy Electron Beam Induced Cross-Linking of Self-Assembled Ru(II) Polypyridine Monolayers. <i>Angewandte Chemie - International Edition</i> , 2022, , .	13.8	1
59	Two-Dimensional Photosensitizer Nanosheets via Low-Energy Electron Beam Induced Cross-Linking of Self-Assembled Ru(II) Polypyridine Monolayers. <i>Angewandte Chemie</i> , 0, , .	2.0	1
60	Ultra-Thin Plasmonic Metasurfaces Based on Carbon Nanomembranes. , 2019, , .		0
61	Integrated Photonics: Scalable Functionalization of Optical Fibers Using Atomically Thin Semiconductors (<i>Adv. Mater.</i> 47/2020). <i>Advanced Materials</i> , 2020, 32, 2070354.	21.0	0
62	Lateral Heterostructures: 1D <i>pn</i> Junction Electronic and Optoelectronic Devices from Transition Metal Dichalcogenide Lateral Heterostructures Grown by One-Pot Chemical Vapor Deposition Synthesis (<i>Adv. Funct. Mater.</i> 27/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170198.	14.9	0
63	Synthesis of Wet-Chemically Prepared Porous Graphene Single Layers on Si/SiO ₂ Substrate Increasing the Photoluminescence of MoS ₂ in Heterostructures (<i>Adv. Mater. Interfaces</i>) Tj ETQq1 1 0.334314 rgbT /Ove	0.7	0
64	3-Dimensional graphene-like structures and applications: general discussion. <i>Faraday Discussions</i> , 2021, 227, 359-382.	3.2	0
65	Frontispiz: Two-Dimensional Photosensitizer Nanosheets via Low-Energy Electron Beam Induced Cross-Linking of Self-Assembled Ru ^{II} Polypyridine Monolayers. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	0
66	Frontispiece: Two-Dimensional Photosensitizer Nanosheets via Low-Energy Electron Beam Induced Cross-Linking of Self-Assembled Ru ^{II} Polypyridine Monolayers. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	0