Sebastian Kruss

List of Publications by Year
in descending order

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62 papers	3,955 citations	101384 36 h-index	149479 56 g-index
68 all docs	68 docs citations	68 times ranked	3854 citing authors

#	Article	IF	Citations
1	Detection and Imaging of the Plant Pathogen Response by Nearâ€Infrared Fluorescent Polyphenol Sensors. Angewandte Chemie - International Edition, 2022, 61, .	7.2	27
2	NIR-emitting benzene-fused oligo-BODIPYs for bioimaging. Analyst, The, 2022, 147, 230-237.	1.7	5
3	Biosensing with Fluorescent Carbon Nanotubes. Angewandte Chemie - International Edition, 2022, 61, .	7.2	90
4	Frontispiz: Detektion und Visualisierung der Pflanzenâ€Pathogenâ€Response durch Nahâ€Infrarotâ€fluoreszente Polyphenolsensoren. Angewandte Chemie, 2022, 134, .	1.6	0
5	Frontispiece: Detection and Imaging of the Plant Pathogen Response by Nearâ€Infrared Fluorescent Polyphenol Sensors. Angewandte Chemie - International Edition, 2022, 61, .	7.2	1
6	Quantum defects as versatile anchors for carbon nanotube functionalization. Nature Protocols, 2022, 17, 727-747.	5.5	18
7	Sensing with Chirality-Pure Near-Infrared Fluorescent Carbon Nanotubes. Analytical Chemistry, 2021, 93, 6446-6455.	3.2	45
8	Quantum Defects in Fluorescent Carbon Nanotubes for Sensing and Mechanistic Studies. Journal of Physical Chemistry C, 2021, 125, 18341-18351.	1.5	28
9	Photophysical properties and fluorescence lifetime imaging of exfoliated near-infrared fluorescent silicate nanosheets. Nanoscale Advances, 2021, 3, 4541-4553.	2.2	12
10	Multispectral near infrared absorption imaging for histology of skin cancer. Journal of Biophotonics, 2020, 13, e201960080.	1.1	18
11	Imaging of Monoamine Neurotransmitters with Fluorescent Nanoscale Sensors. ChemPlusChem, 2020, 85, 1465-1480.	1.3	27
12	Remote near infrared identification of pathogens with multiplexed nanosensors. Nature Communications, 2020, 11, 5995.	5.8	81
13	Innentitelbild: Quantendefekte als Werkzeugkasten fÃ¼r die kovalente Funktionalisierung von KohlenstoffnanorÃ¶hren mit Peptiden und Proteinen (Angew. Chem. 40/2020). Angewandte Chemie, 2020, 132, 17458-17458.	1.6	0
14	Quantendefekte als Werkzeugkasten fÃ¼r die kovalente Funktionalisierung von KohlenstoffnanorÃ¶hren mit Peptiden und Proteinen. Angewandte Chemie, 2020, 132, 17885-17891.	1.6	6
15	Quantum Defects as a Toolbox for the Covalent Functionalization of Carbon Nanotubes with Peptides and Proteins. Angewandte Chemie - International Edition, 2020, 59, 17732-17738.	7.2	54
16	Banning carbon nanotubes would be scientifically unjustified and damaging to innovation. Nature Nanotechnology, 2020, 15, 164-166.	15.6	69
17	Exfoliated near infrared fluorescent silicate nanosheets for (bio)photonics. Nature Communications, 2020, 11, 1495.	5.8	46
18	The power from within â€“ understanding the driving forces of neutrophil extracellular trap formation. Journal of Cell Science, 2020, 133, .	1.2	26

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19	Monitoring Plant Health with Near-Infrared Fluorescent H₂O₂ Nanosensors. Nano Letters, 2020, 20, 2432-2442.	4.5	142
20	Transport and programmed release of nanoscale cargo from cells by using NETosis. Nanoscale, 2020, 12, 9104-9115.	2.8	15
21	Near-Infrared Imaging of Serotonin Release from Cells with Fluorescent Nanosensors. Nano Letters, 2019, 19, 6604-6611.	4.5	92
22	Blue and Long-Wave Ultraviolet Light Induce in vitro Neutrophil Extracellular Trap (NET) Formation. Frontiers in Immunology, 2019, 10, 2428.	2.2	26
23	Effect of Adhesion and Substrate Elasticity on Neutrophil Extracellular Trap Formation. Frontiers in Immunology, 2019, 10, 2320.	2.2	35
24	Quantification of the Number of Adsorbed DNA Molecules on Single-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2019, 123, 4837-4847.	1.5	63
25	Nanobiotechnology approaches for engineering smart plant sensors. Nature Nanotechnology, 2019, 14, 541-553.	15.6	337
26	Chirality enriched carbon nanotubes with tunable wrapping via corona phase exchange purification (CPEP). Nanoscale, 2019, 11, 11159-11166.	2.8	24
27	NanorÃ¶hrenâ€Nanobodyâ€Konjugate als zielgerichtete Sonden und Marker fÃ¼r die Inâ€vivoâ€Nahinfrarotâ€Bildgebung. Angewandte Chemie, 2019, 131, 11591.	1.6	11
28	Nanobodyâ€Conjugated Nanotubes for Targeted Nearâ€Infrared In Vivo Imaging and Sensing. Angewandte Chemie - International Edition, 2019, 58, 11469-11473.	7.2	54
29	Serum and Serum Albumin Inhibit in vitro Formation of Neutrophil Extracellular Traps (NETs). Frontiers in Immunology, 2019, 10, 12.	2.2	68
30	Morphological Plasticity of Human Melanoma Cells Is Determined by Nanoscopic Patterns of E- and N-Cadherin Interactions. Journal of Investigative Dermatology, 2019, 139, 562-572.	0.3	9
31	Carbon Nanotubes Encapsulated in Coiledâ€Coil Peptide Barrels. Chemistry - A European Journal, 2018, 24, 12241-12245.	1.7	45
32	Control of Integrin Affinity by Confining RGD Peptides on Fluorescent Carbon Nanotubes. ACS Applied Materials & Interfaces, 2018, 10, 17693-17703.	4.0	47
33	Nanoscale Tuning of VCAM-1 Determines VLA-4â€“Dependent Melanoma Cell Plasticity on RGD Motifs. Molecular Cancer Research, 2018, 16, 528-542.	1.5	14
34	Chromatin swelling drives neutrophil extracellular trap release. Nature Communications, 2018, 9, 3767.	5.8	165
35	High-resolution imaging of cellular dopamine efflux using a fluorescent nanosensor array. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1789-1794.	3.3	158
36	Kinetic Requirements for Spatiotemporal Chemical Imaging with Fluorescent Nanosensors. ACS Nano, 2017, 11, 4017-4027.	7.3	31

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37	Tuning Selectivity of Fluorescent Carbon Nanotube-Based Neurotransmitter Sensors. Sensors, 2017, 17, 1521.	2.1	62
38	Chirality dependent corona phase molecular recognition of DNA-wrapped carbon nanotubes. Carbon, 2016, 97, 147-153.	5.4	78
39	Nanosensors for neurotransmitters. Analytical and Bioanalytical Chemistry, 2016, 408, 2727-2741.	1.9	45
40	Impact of Redox-Active Molecules on the Fluorescence of Polymer-Wrapped Carbon Nanotubes. Journal of Physical Chemistry C, 2016, 120, 3061-3070.	1.5	78
41	Protein-targeted corona phase molecular recognition. Nature Communications, 2016, 7, 10241.	5.8	193
42	A Mathematical Formulation and Solution of the CoPhMoRe Inverse Problem for Helically Wrapping Polymer Corona Phases on Cylindrical Substrates. Journal of Physical Chemistry C, 2015, 119, 13876-13886.	1.5	40
43	Mechanism of Immobilized Protein A Binding to Immunoglobulin G on Nanosensor Array Surfaces. Analytical Chemistry, 2015, 87, 8186-8193.	3.2	56
44	Comparative Dynamics and Sequence Dependence of DNA and RNA Binding to Single Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2015, 119, 10048-10058.	1.5	75
45	Experimental Tools to Study Molecular Recognition within the Nanoparticle Corona. Sensors, 2014, 14, 16196-16211.	2.1	49
46	Neurotransmitter Detection Using Corona Phase Molecular Recognition on Fluorescent Single-Walled Carbon Nanotube Sensors. Journal of the American Chemical Society, 2014, 136, 713-724.	6.6	288
47	Recent Advances in Molecular Recognition Based on Nanoengineered Platforms. Accounts of Chemical Research, 2014, 47, 979-988.	7.6	70
48	Low Dimensional Carbon Materials for Applications in Mass and Energy Transport. Chemistry of Materials, 2014, 26, 172-183.	3.2	42
49	Nanoscale Integrin Ligand Patterns Determine Melanoma Cell Behavior. ACS Nano, 2014, 8, 9113-9125.	7.3	44
50	A Rapid, Direct, Quantitative, and Labelâ€Free Detector of Cardiac Biomarker Troponin T Using Nearâ€Infrared Fluorescent Singleâ€Walled Carbon Nanotube Sensors. Advanced Healthcare Materials, 2014, 3, 412-423.	3.9	76
51	Molecular recognition using corona phase complexes made of synthetic polymers adsorbed on carbon nanotubes. , 2014, , .		1
52	A graphene-based physiometer array for the analysis of single biological cells. Scientific Reports, 2014, 4, 6865.	1.6	36
53	Carbon nanotubes as optical biomedical sensors. Advanced Drug Delivery Reviews, 2013, 65, 1933-1950.	6.6	324
54	Emergent Properties of Nanosensor Arrays: Applications for Monitoring IgG Affinity Distributions, Weakly Affined Hypermannosylation, and Colony Selection for Biomanufacturing. ACS Nano, 2013, 7, 7472-7482.	7.3	45

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55	Adhesion Maturation of Neutrophils on Nanoscopically Presented Platelet Glycoprotein Ibî±. ACS Nano, 2013, 7, 9984-9996.	7.3	51
56	Molecular recognition using corona phase complexes made of synthetic polymers adsorbed on carbon nanotubes. Nature Nanotechnology, 2013, 8, 959-968.	15.6	282
57	Nanostructured biofunctionalized polyurethanes for applications in regenerative medicine. Materials Research Society Symposia Proceedings, 2012, 1417, 36.	0.1	0
58	Circular, nanostructured and biofunctionalized hydrogel microchannels for dynamic cell adhesion studies. Lab on A Chip, 2012, 12, 3285.	3.1	35
59	Auâ€“Ag Hybrid Nanoparticle Patterns of Tunable Size and Density on Glass and Polymeric Supports. Langmuir, 2012, 28, 1562-1568.	1.6	45
60	Stimulation of Cell Adhesion at Nanostructured Teflon Interfaces. Advanced Materials, 2010, 22, 5499-5506.	11.1	41
61	Detection and imaging of the plant pathogen response by near infrared fluorescent polyphenol sensors. Angewandte Chemie, 0, , .	1.6	2
62	Biosensing with Fluorescent Carbon Nanotubes. Angewandte Chemie, 0, , .	1.6	2