

Sebastian Kruss

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

56 papers	2,482 citations	30 h-index	49 g-index
68 ext. papers	3,250 ext. citations	10.4 avg, IF	5.35 L-index

#	Paper	IF	Citations
56	Sensing with Chirality-Pure Near-Infrared Fluorescent Carbon Nanotubes. <i>Analytical Chemistry</i> , 2021 , 93, 6446-6455	7.8	10
55	Quantum Defects in Fluorescent Carbon Nanotubes for Sensing and Mechanistic Studies. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 18341-18351	3.8	8
54	Photophysical properties and fluorescence lifetime imaging of exfoliated near-infrared fluorescent silicate nanosheets. <i>Nanoscale Advances</i> , 2021 , 3, 4541-4553	5.1	0
53	Quantendefekte als Werkzeugkasten für die kovalente Funktionalisierung von Kohlenstoffnanoröhren mit Peptiden und Proteinen. <i>Angewandte Chemie</i> , 2020 , 132, 17885-17891	3.6	2
52	Quantum Defects as a Toolbox for the Covalent Functionalization of Carbon Nanotubes with Peptides and Proteins. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 17732-17738	16.4	30
51	Banning carbon nanotubes would be scientifically unjustified and damaging to innovation. <i>Nature Nanotechnology</i> , 2020 , 15, 164-166	28.7	40
50	Exfoliated near infrared fluorescent silicate nanosheets for (bio)photonics. <i>Nature Communications</i> , 2020 , 11, 1495	17.4	17
49	The power from within - understanding the driving forces of neutrophil extracellular trap formation. <i>Journal of Cell Science</i> , 2020 , 133,	5.3	13
48	Monitoring Plant Health with Near-Infrared Fluorescent HO Nanosensors. <i>Nano Letters</i> , 2020 , 20, 2432-2443	24.3	54
47	Imaging of Monoamine Neurotransmitters with Fluorescent Nanoscale Sensors. <i>ChemPlusChem</i> , 2020 , 85, 1465-1480	2.8	9
46	Remote near infrared identification of pathogens with multiplexed nanosensors. <i>Nature Communications</i> , 2020 , 11, 5995	17.4	27
45	Innentitelbild: Quantendefekte als Werkzeugkasten für die kovalente Funktionalisierung von Kohlenstoffnanoröhren mit Peptiden und Proteinen (Angew. Chem. 40/2020). <i>Angewandte Chemie</i> , 2020 , 132, 17458-17458	3.6	
44	Multispectral near infrared absorption imaging for histology of skin cancer. <i>Journal of Biophotonics</i> , 2020 , 13, e201960080	3.1	9
43	Transport and programmed release of nanoscale cargo from cells by using NETosis. <i>Nanoscale</i> , 2020 , 12, 9104-9115	7.7	9
42	Quantification of the Number of Adsorbed DNA Molecules on Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 4837-4847	3.8	31
41	Nanobiotechnology approaches for engineering smart plant sensors. <i>Nature Nanotechnology</i> , 2019 , 14, 541-553	28.7	195
40	Chirality enriched carbon nanotubes with tunable wrapping via corona phase exchange purification (CPEP). <i>Nanoscale</i> , 2019 , 11, 11159-11166	7.7	14

39	Nanoröten-Nanobody-Konjugate als zielgerichtete Sonden und Marker für die In-vivo-Nahinfrarot-Bildgebung. <i>Angewandte Chemie</i> , 2019 , 131, 11591	3.6	1
38	Nanobody-Conjugated Nanotubes for Targeted Near-Infrared In Vivo Imaging and Sensing. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 11469-11473	16.4	36
37	Serum and Serum Albumin Inhibit Formation of Neutrophil Extracellular Traps (NETs). <i>Frontiers in Immunology</i> , 2019 , 10, 12	8.4	36
36	Near-Infrared Imaging of Serotonin Release from Cells with Fluorescent Nanosensors. <i>Nano Letters</i> , 2019 , 19, 6604-6611	11.5	44
35	Blue and Long-Wave Ultraviolet Light Induce Neutrophil Extracellular Trap (NET) Formation. <i>Frontiers in Immunology</i> , 2019 , 10, 2428	8.4	11
34	Effect of Adhesion and Substrate Elasticity on Neutrophil Extracellular Trap Formation. <i>Frontiers in Immunology</i> , 2019 , 10, 2320	8.4	20
33	Morphological Plasticity of Human Melanoma Cells Is Determined by Nanoscopic Patterns of E- and N-Cadherin Interactions. <i>Journal of Investigative Dermatology</i> , 2019 , 139, 562-572	4.3	7
32	Carbon Nanotubes Encapsulated in Coiled-Coil Peptide Barrels. <i>Chemistry - A European Journal</i> , 2018 , 24, 12241-12245	4.8	29
31	Control of Integrin Affinity by Confining RGD Peptides on Fluorescent Carbon Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 17693-17703	9.5	32
30	Nanoscale Tuning of VCAM-1 Determines VLA-4-Dependent Melanoma Cell Plasticity on RGD Motifs. <i>Molecular Cancer Research</i> , 2018 , 16, 528-542	6.6	11
29	Chromatin swelling drives neutrophil extracellular trap release. <i>Nature Communications</i> , 2018 , 9, 3767	17.4	92
28	High-resolution imaging of cellular dopamine efflux using a fluorescent nanosensor array. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 1789-1794	11.5	100
27	Kinetic Requirements for Spatiotemporal Chemical Imaging with Fluorescent Nanosensors. <i>ACS Nano</i> , 2017 , 11, 4017-4027	16.7	21
26	Tuning Selectivity of Fluorescent Carbon Nanotube-Based Neurotransmitter Sensors. <i>Sensors</i> , 2017 , 17,	3.8	38
25	Nanosensors for neurotransmitters. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 2727-41	4.4	34
24	Impact of Redox-Active Molecules on the Fluorescence of Polymer-Wrapped Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 3061-3070	3.8	55
23	Protein-targeted corona phase molecular recognition. <i>Nature Communications</i> , 2016 , 7, 10241	17.4	137
22	Chirality dependent corona phase molecular recognition of DNA-wrapped carbon nanotubes. <i>Carbon</i> , 2016 , 97, 147-153	10.4	57

21	A Mathematical Formulation and Solution of the CoPhMoRe Inverse Problem for Helically Wrapping Polymer Corona Phases on Cylindrical Substrates. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 13876-13886	3.8	31
20	Mechanism of immobilized protein A binding to immunoglobulin G on nanosensor array surfaces. <i>Analytical Chemistry</i> , 2015 , 87, 8186-93	7.8	41
19	Comparative Dynamics and Sequence Dependence of DNA and RNA Binding to Single Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 10048-10058	3.8	61
18	A graphene-based physiometer array for the analysis of single biological cells. <i>Scientific Reports</i> , 2014 , 4, 6865	4.9	29
17	Neurotransmitter detection using corona phase molecular recognition on fluorescent single-walled carbon nanotube sensors. <i>Journal of the American Chemical Society</i> , 2014 , 136, 713-24	16.4	205
16	Recent advances in molecular recognition based on nanoengineered platforms. <i>Accounts of Chemical Research</i> , 2014 , 47, 979-88	24.3	59
15	Low Dimensional Carbon Materials for Applications in Mass and Energy Transport. <i>Chemistry of Materials</i> , 2014 , 26, 172-183	9.6	35
14	Nanoscale integrin ligand patterns determine melanoma cell behavior. <i>ACS Nano</i> , 2014 , 8, 9113-25	16.7	42
13	A rapid, direct, quantitative, and label-free detector of cardiac biomarker troponin T using near-infrared fluorescent single-walled carbon nanotube sensors. <i>Advanced Healthcare Materials</i> , 2014 , 3, 412-23	10.1	61
12	Molecular recognition using corona phase complexes made of synthetic polymers adsorbed on carbon nanotubes 2014 ,		1
11	Experimental tools to study molecular recognition within the nanoparticle corona. <i>Sensors</i> , 2014 , 14, 16196-211	3.8	37
10	Carbon nanotubes as optical biomedical sensors. <i>Advanced Drug Delivery Reviews</i> , 2013 , 65, 1933-50	18.5	245
9	Emergent properties of nanosensor arrays: applications for monitoring IgG affinity distributions, weakly affined hypermannosylation, and colony selection for biomanufacturing. <i>ACS Nano</i> , 2013 , 7, 7472-82	16.7	38
8	Adhesion maturation of neutrophils on nanoscopically presented platelet glycoprotein Ib <i>ACS Nano</i> , 2013 , 7, 9984-96	16.7	42
7	Molecular recognition using corona phase complexes made of synthetic polymers adsorbed on carbon nanotubes. <i>Nature Nanotechnology</i> , 2013 , 8, 959-68	28.7	205
6	Circular, nanostructured and biofunctionalized hydrogel microchannels for dynamic cell adhesion studies. <i>Lab on A Chip</i> , 2012 , 12, 3285-9	7.2	28
5	Au-Ag hybrid nanoparticle patterns of tunable size and density on glass and polymeric supports. <i>Langmuir</i> , 2012 , 28, 1562-8	4	41
4	Nanostructured biofunctionalized polyurethanes for applications in regenerative medicine. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1417, 36		

3	Stimulation of cell adhesion at nanostructured teflon interfaces. <i>Advanced Materials</i> , 2010 , 22, 5499-5062	38
2	Effect of Adhesion and Substrate Elasticity on Neutrophil Extracellular Trap Formation	2
1	Exfoliated near infrared fluorescent CaCuSi ₄ O ₁₀ nanosheets with ultra-high photostability and brightness for biological imaging	1