

# Sebastian Kruss

## List of Publications by Citations

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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	Carbon nanotubes as optical biomedical sensors. <i>Advanced Drug Delivery Reviews</i> , <b>2013</b> , 65, 1933-50	18.5	245
55	Neurotransmitter detection using corona phase molecular recognition on fluorescent single-walled carbon nanotube sensors. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 713-24	16.4	205
54	Molecular recognition using corona phase complexes made of synthetic polymers adsorbed on carbon nanotubes. <i>Nature Nanotechnology</i> , <b>2013</b> , 8, 959-68	28.7	205
53	Nanobiotechnology approaches for engineering smart plant sensors. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 541-553	28.7	195
52	Protein-targeted corona phase molecular recognition. <i>Nature Communications</i> , <b>2016</b> , 7, 10241	17.4	137
51	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> , <b>2017</b> , 114, 1789-1794	11.5	100
50	Chromatin swelling drives neutrophil extracellular trap release. <i>Nature Communications</i> , <b>2018</b> , 9, 3767	17.4	92
49	Comparative Dynamics and Sequence Dependence of DNA and RNA Binding to Single Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 10048-10058	3.8	61
48	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> , <b>2014</b> , 3, 412-23	10.1	61
47	Recent advances in molecular recognition based on nanoengineered platforms. <i>Accounts of Chemical Research</i> , <b>2014</b> , 47, 979-88	24.3	59
46	Chirality dependent corona phase molecular recognition of DNA-wrapped carbon nanotubes. <i>Carbon</i> , <b>2016</b> , 97, 147-153	10.4	57
45	Impact of Redox-Active Molecules on the Fluorescence of Polymer-Wrapped Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 3061-3070	3.8	55
44	Monitoring Plant Health with Near-Infrared Fluorescent HO Nanosensors. <i>Nano Letters</i> , <b>2020</b> , 20, 2432-2443	11.5	54
43	Near-Infrared Imaging of Serotonin Release from Cells with Fluorescent Nanosensors. <i>Nano Letters</i> , <b>2019</b> , 19, 6604-6611	11.5	44
42	Nanoscale integrin ligand patterns determine melanoma cell behavior. <i>ACS Nano</i> , <b>2014</b> , 8, 9113-25	16.7	42
41	Adhesion maturation of neutrophils on nanoscopically presented platelet glycoprotein Ib-ACS <i>Nano</i> , <b>2013</b> , 7, 9984-96	16.7	42
40	Mechanism of immobilized protein A binding to immunoglobulin G on nanosensor array surfaces. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 8186-93	7.8	41

39	Au-Ag hybrid nanoparticle patterns of tunable size and density on glass and polymeric supports. <i>Langmuir</i> , <b>2012</b> , 28, 1562-8	4	41
38	Banning carbon nanotubes would be scientifically unjustified and damaging to innovation. <i>Nature Nanotechnology</i> , <b>2020</b> , 15, 164-166	28.7	40
37	Tuning Selectivity of Fluorescent Carbon Nanotube-Based Neurotransmitter Sensors. <i>Sensors</i> , <b>2017</b> , 17,	3.8	38
36	Emergent properties of nanosensor arrays: applications for monitoring IgG affinity distributions, weakly affined hypermannosylation, and colony selection for biomanufacturing. <i>ACS Nano</i> , <b>2013</b> , 7, 7472-82	16.7	38
35	Stimulation of cell adhesion at nanostructured teflon interfaces. <i>Advanced Materials</i> , <b>2010</b> , 22, 5499-5062	24	38
34	Experimental tools to study molecular recognition within the nanoparticle corona. <i>Sensors</i> , <b>2014</b> , 14, 16196-211	3.8	37
33	Nanobody-Conjugated Nanotubes for Targeted Near-Infrared In Vivo Imaging and Sensing. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 11469-11473	16.4	36
32	Serum and Serum Albumin Inhibit Formation of Neutrophil Extracellular Traps (NETs). <i>Frontiers in Immunology</i> , <b>2019</b> , 10, 12	8.4	36
31	Low Dimensional Carbon Materials for Applications in Mass and Energy Transport. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 172-183	9.6	35
30	Nanosensors for neurotransmitters. <i>Analytical and Bioanalytical Chemistry</i> , <b>2016</b> , 408, 2727-41	4.4	34
29	Control of Integrin Affinity by Confining RGD Peptides on Fluorescent Carbon Nanotubes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 17693-17703	9.5	32
28	Quantification of the Number of Adsorbed DNA Molecules on Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 4837-4847	3.8	31
27	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> , <b>2015</b> , 119, 13876-13886	3.8	31
26	Quantum Defects as a Toolbox for the Covalent Functionalization of Carbon Nanotubes with Peptides and Proteins. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 17732-17738	16.4	30
25	A graphene-based physiometer array for the analysis of single biological cells. <i>Scientific Reports</i> , <b>2014</b> , 4, 6865	4.9	29
24	Carbon Nanotubes Encapsulated in Coiled-Coil Peptide Barrels. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 12241-12245	4.8	29
23	Circular, nanostructured and biofunctionalized hydrogel microchannels for dynamic cell adhesion studies. <i>Lab on A Chip</i> , <b>2012</b> , 12, 3285-9	7.2	28
22	Remote near infrared identification of pathogens with multiplexed nanosensors. <i>Nature Communications</i> , <b>2020</b> , 11, 5995	17.4	27

21	Kinetic Requirements for Spatiotemporal Chemical Imaging with Fluorescent Nanosensors. <i>ACS Nano</i> , <b>2017</b> , 11, 4017-4027	16.7	21
20	Effect of Adhesion and Substrate Elasticity on Neutrophil Extracellular Trap Formation. <i>Frontiers in Immunology</i> , <b>2019</b> , 10, 2320	8.4	20
19	Exfoliated near infrared fluorescent silicate nanosheets for (bio)photonics. <i>Nature Communications</i> , <b>2020</b> , 11, 1495	17.4	17
18	Chirality enriched carbon nanotubes with tunable wrapping via corona phase exchange purification (CPEP). <i>Nanoscale</i> , <b>2019</b> , 11, 11159-11166	7.7	14
17	The power from within - understanding the driving forces of neutrophil extracellular trap formation. <i>Journal of Cell Science</i> , <b>2020</b> , 133,	5.3	13
16	Blue and Long-Wave Ultraviolet Light Induce Neutrophil Extracellular Trap (NET) Formation. <i>Frontiers in Immunology</i> , <b>2019</b> , 10, 2428	8.4	11
15	Nanoscale Tuning of VCAM-1 Determines VLA-4-Dependent Melanoma Cell Plasticity on RGD Motifs. <i>Molecular Cancer Research</i> , <b>2018</b> , 16, 528-542	6.6	11
14	Sensing with Chirality-Pure Near-Infrared Fluorescent Carbon Nanotubes. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 6446-6455	7.8	10
13	Imaging of Monoamine Neurotransmitters with Fluorescent Nanoscale Sensors. <i>ChemPlusChem</i> , <b>2020</b> , 85, 1465-1480	2.8	9
12	Multispectral near infrared absorption imaging for histology of skin cancer. <i>Journal of Biophotonics</i> , <b>2020</b> , 13, e201960080	3.1	9
11	Transport and programmed release of nanoscale cargo from cells by using NETosis. <i>Nanoscale</i> , <b>2020</b> , 12, 9104-9115	7.7	9
10	Quantum Defects in Fluorescent Carbon Nanotubes for Sensing and Mechanistic Studies. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 18341-18351	3.8	8
9	Morphological Plasticity of Human Melanoma Cells Is Determined by Nanoscopic Patterns of E- and N-Cadherin Interactions. <i>Journal of Investigative Dermatology</i> , <b>2019</b> , 139, 562-572	4.3	7
8	Quantendefekte als Werkzeugkasten für die kovalente Funktionalisierung von Kohlenstoffnanoröhren mit Peptiden und Proteinen. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 17885-17891	3.6	2
7	Effect of Adhesion and Substrate Elasticity on Neutrophil Extracellular Trap Formation		2
6	Nanoröhren-Nanobody-Konjugate als zielgerichtete Sonden und Marker für die In-vivo-Nahinfrarot-Bildgebung. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 11591	3.6	1
5	Molecular recognition using corona phase complexes made of synthetic polymers adsorbed on carbon nanotubes <b>2014</b> ,		1
4	Exfoliated near infrared fluorescent CaCuSi <sub>4</sub> O <sub>10</sub> nanosheets with ultra-high photostability and brightness for biological imaging		1

- 3 Photophysical properties and fluorescence lifetime imaging of exfoliated near-infrared fluorescent silicate nanosheets. *Nanoscale Advances*, **2021**, 3, 4541-4553 5.1 0
- 2 Nanostructured biofunctionalized polyurethanes for applications in regenerative medicine. *Materials Research Society Symposia Proceedings*, **2012**, 1417, 36
- 1 Innentitelbild: Quantendefekte als Werkzeugkasten für die kovalente Funktionalisierung von Kohlenstoffnanoröhren mit Peptiden und Proteinen (Angew. Chem. 40/2020). *Angewandte Chemie*, **2020**, 132, 17458-17458 3.6