Tommy Cedervall

List of Publications by Year
in descending order

61 papers	11,452 citations	159358 30 h-index	133063 59 g-index
62 all docs	62 docs citations	62 times ranked	13275 citing authors

#	Article	IF	Citations
1	Understanding the nanoparticle-protein corona using methods to quantify exchange rates and affinities of proteins for nanoparticles. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 2050-2055.	3.3	2,705
2	Nanoparticle size and surface properties determine the protein corona with possible implications for biological impacts. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 14265-14270.	3.3	2,583
3	Detailed Identification of Plasma Proteins Adsorbed on Copolymer Nanoparticles. Angewandte Chemie - International Edition, 2007, 46, 5754-5756.	7.2	721
4	The Evolution of the Protein Corona around Nanoparticles: A Test Study. ACS Nano, 2011, 5, 7503-7509.	7.3	698
5	The nanoparticleâ€"protein complex as a biological entity; a complex fluids and surface science challenge for the 21st century. Advances in Colloid and Interface Science, 2007, 134-135, 167-174.	7.0	618
6	Brain damage and behavioural disorders in fish induced by plastic nanoparticles delivered through the food chain. Scientific Reports, 2017, 7, 11452.	1.6	491
7	Altered Behavior, Physiology, and Metabolism in Fish Exposed to Polystyrene Nanoparticles. Environmental Science & Technology, 2015, 49, 553-561.	4.6	421
8	Food Chain Transport of Nanoparticles Affects Behaviour and Fat Metabolism in Fish. PLoS ONE, 2012, 7, e32254.	1.1	397
9	The La Protein. Annual Review of Biochemistry, 2002, 71, 375-403.	5.0	371
10	Modeling the Time Evolution of the Nanoparticle-Protein Corona in a Body Fluid. PLoS ONE, 2010, 5, e10949.	1.1	272
11	Complete highâ€density lipoproteins in nanoparticle corona. FEBS Journal, 2009, 276, 3372-3381.	2.2	247
12	Nanoplastics formed during the mechanical breakdown of daily-use polystyrene products. Nanoscale Advances, 2019, 1, 1055-1061.	2.2	183
13	The nanoparticle protein corona formed in human blood or human blood fractions. PLoS ONE, 2017, 12, e0175871.	1.1	148
14	A lupus-like syndrome develops in mice lacking the Ro 60-kDa protein, a major lupus autoantigen. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 7503-7508.	3.3	133
15	Understanding the Lipid and Protein Corona Formation on Different Sized Polymeric Nanoparticles. Scientific Reports, 2020, 10, 1129.	1.6	129
16	Structural Changes in Apolipoproteins Bound to Nanoparticles. Langmuir, 2011, 27, 14360-14369.	1.6	95
17	Silver and Gold Nanoparticles Exposure to In Vitro Cultured Retina â€" Studies on Nanoparticle Internalization, Apoptosis, Oxidative Stress, Glial- and Microglial Activity. PLoS ONE, 2014, 9, e105359.	1.1	91
18	Long-term exposure to nanoplastics reduces life-time in Daphnia magna. Scientific Reports, 2020, 10, 5979.	1.6	87

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19	Size-Dependent Effects of Nanoparticles on Enzymes in the Blood Coagulation Cascade. Nano Letters, 2014, 14, 4736-4744.	4.5	76
20	Polystyrene nanoparticles affecting blood coagulation. Nanomedicine: Nanotechnology, Biology, and Medicine, 2012, 8, 981-986.	1.7	73
21	IgG and fibrinogen driven nanoparticle aggregation. Nano Research, 2015, 8, 2733-2743.	5.8	71
22	Autocatalytic amplification of Alzheimer-associated AÎ²42 peptide aggregation in human cerebrospinal fluid. Communications Biology, 2019, 2, 365.	2.0	46
23	Analysis of nanoparticle biomolecule complexes. Nanoscale, 2018, 10, 4246-4257.	2.8	44
24	Real-timein situanalysis of biocorona formation and evolution on silica nanoparticles in defined and complex biological environments. Nanoscale, 2017, 9, 3620-3628.	2.8	41
25	Î±₁â€Microglobulin chromophores are located to three lysine residues semiburied in the lipocalin pocket and associated with a novel lipophilic compound. Protein Science, 1999, 8, 2611-2620.	3.1	38
26	Delivery success rate of engineered nanoparticles in the presence of the protein corona: a systems-level screening. Nanomedicine: Nanotechnology, Biology, and Medicine, 2012, 8, 1271-1281.	1.7	38
27	Coiled-Coil Structure of Group A Streptococcal M Proteins. Different Temperature Stability of Class A and C Proteins by Hydrophobicâ''Nonhydrophobic Amino Acid Substitutions at Heptad Positions a and dâ€. Biochemistry, 1997, 36, 4987-4994.	1.2	36
28	Translocation of 40â€‰nm diameter nanowires through the intestinal epithelium of Daphnia magna. Nanotoxicology, 2016, 10, 1160-1167.	1.6	34
29	Analysis of nanoparticleâ€"protein coronas formedin vitrobetween nanosized welding particles and nasal lavage proteins. Nanotoxicology, 2016, 10, 226-234.	1.6	32
30	Biocompatibility of mannan nanogelâ€"safe interaction with plasma proteins. Biochimica Et Biophysica Acta - General Subjects, 2012, 1820, 1043-1051.	1.1	27
31	Processing and secretion of rat Î±1-microglobulin-bikunin expressed in eukaryotic cell lines. FEBS Letters, 1994, 354, 57-61.	1.3	23
32	Three Decades of Research about the Corona Around Nanoparticles: Lessons Learned and Where to Go Now. Small, 2020, 16, e2000892.	5.2	23
33	Mathematical modeling of the protein corona: implications for nanoparticulate delivery systems. Nanomedicine, 2014, 9, 851-858.	1.7	21
34	Deamidation and disulfide bridge formation in human calbindin D28k with effects on calcium binding. Protein Science, 2005, 14, 968-979.	3.1	20
35	Adsorption of bio-organic eco-corona molecules reduces the toxic response to metallic nanoparticles in Daphnia magna. Scientific Reports, 2021, 11, 10784.	1.6	20
36	Redox Sensitive Cysteine Residues in Calbindin D28k Are Structurally and Functionally Important. Biochemistry, 2005, 44, 684-693.	1.2	19

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37	Nanomaterials in the European chemicals legislation â€“ methodological challenges for registration and environmental safety assessment. Environmental Science: Nano, 2021, 8, 731-747.	2.2	18
38	Possibilities of Using Fetal Hemoglobin as a Platform for Producing Hemoglobin-Based Oxygen Carriers (HBOCs). Advances in Experimental Medicine and Biology, 2016, 876, 445-453.	0.8	18
39	Analysis of complexes formed by small gold nanoparticles in low concentration in cell culture media. PLoS ONE, 2019, 14, e0218211.	1.1	17
40	Size fractionation of high-density polyethylene breakdown nanoplastics reveals different toxic response in Daphnia magna. Scientific Reports, 2022, 12, 3109.	1.6	17
41	Controlled protein mediated aggregation of polystyrene nanoplastics does not reduce toxicity towards Daphnia magna. Environmental Science: Nano, 2020, 7, 1518-1524.	2.2	15
42	Tungsten carbide nanoparticles in simulated surface water with natural organic matter: dissolution, agglomeration, sedimentation and interaction with Daphnia magna. Environmental Science: Nano, 2017, 4, 886-894.	2.2	14
43	Long-term effects of tungsten carbide (WC) nanoparticles in pelagic and benthic aquatic ecosystems. Nanotoxicology, 2018, 12, 79-89.	1.6	13
44	Disaggregation of gold nanoparticles by Daphnia magna. Nanotoxicology, 2018, 12, 885-900.	1.6	12
45	Analysis of the length distribution of amyloid fibrils by centrifugal sedimentation. Analytical Biochemistry, 2016, 504, 7-13.	1.1	11
46	Nanoparticle effect on neutrophil produced myeloperoxidase. PLoS ONE, 2018, 13, e0191445.	1.1	11
47	Review of ecotoxicological studies of widely used polystyrene nanoparticles. Environmental Sciences: Processes and Impacts, 2022, 24, 8-16.	1.7	11
48	Rapid and Facile Purification of Apolipoprotein A-I from Human Plasma Using Thermoresponsive Nanoparticles. Journal of Biomaterials and Nanobiotechnology, 2011, 02, 258-266.	1.0	9
49	Electron microscopy imaging of proteins on gallium phosphide semiconductor nanowires. Nanoscale, 2016, 8, 3936-3943.	2.8	9
50	Calbindin D28k EF-Hand Ligand Binding and Oligomerization:â€‰ Four High-Affinity SitesThree Modes of Action. Biochemistry, 2005, 44, 13522-13532.	1.2	8
51	Calcium-Dependent Interaction of Calmodulin with Human 80S Ribosomes and Polyribosomes. Biochemistry, 2012, 51, 6718-6727.	1.2	8
52	Direct Deposition of Gas Phase Generated Aerosol Gold Nanoparticles into Biological Fluids - Corona Formation and Particle Size Shifts. PLoS ONE, 2013, 8, e74702.	1.1	7
53	Transfer of Cobalt Nanoparticles in a Simplified Food Web: From Algae to Zooplankton to Fish. Applied Nano, 2021, 2, 184-205.	0.9	4
54	A Method for Investigation of Size-Dependent Protein Binding to Nanoholes Using Intrinsic Fluorescence of Proteins. ACS Omega, 2017, 2, 4772-4778.	1.6	3

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55	Protein Interactions with Microballoons: Consequences for Biocompatibility and Application as Contrast Agents. , 2010, , 53-66.		3
56	Protein binding on acutely toxic and non-toxic polystyrene nanoparticles during filtration by Daphnia magna. Environmental Science: Nano, 2022, 9, 2500-2509.	2.2	3
57	Heat elution chromatography of immunoglobulins. Protein Expression and Purification, 2003, 30, 301-303.	0.6	1
58	Effect of Nanoparticles in Top Consumers. Biophysical Journal, 2014, 106, 625a.	0.2	1
59	Workshop on Environmental Nanosafety: Biological Interactions of Plastic Nanoparticles. Journal of Chemical Education, 2019, 96, 1967-1970.	1.1	1
60	Mathematical Modeling of the Protein Corona: Implications for Nanoparticulate Delivery Systems. Frontiers in Nanobiomedical Research, 2016, , 53-65.	0.1	0
61	Dual topography of laminin corona on gallium arsenide nanowires. Biointerphases, 2020, 15, 051007.	0.6	0