Tommy Cedervall

List of Publications by Citations

59 papers	9,360 citations	28 h-index	62 g-index
62 ext. papers	10,376 ext. citations	6.1 avg, IF	5.96 L-index

#	Paper	IF	Citations
59	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, 2050-5	11.5	2316
58	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, 14265-70	11.5	2257
57	Detailed identification of plasma proteins adsorbed on copolymer nanoparticles. *Angewandte Chemie - International Edition*, **2007**, 46, 5754-6	16.4	653
56	The evolution of the protein corona around nanoparticles: a test study. *ACS Nano*, **2011**, 5, 7503-9	16.7	612
55	The nanoparticle-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, 167-74	14.3	540
54	The La protein. *Annual Review of Biochemistry*, **2002**, 71, 375-403	29.1	337
53	Food chain transport of nanoparticles affects behaviour and fat metabolism in fish. *PLoS ONE*, **2012**, 7, e32254	3.7	293
52	Altered behavior, physiology, and metabolism in fish exposed to polystyrene nanoparticles. *Environmental Science & Technology*, **2015**, 49, 553-61	10.3	292
51	Brain damage and behavioural disorders in fish induced by plastic nanoparticles delivered through the food chain. *Scientific Reports*, **2017**, 7, 11452	4.9	281
50	Modeling the time evolution of the nanoparticle-protein corona in a body fluid. *PLoS ONE*, **2010**, 5, e10949	3.7	237
49	Complete high-density lipoproteins in nanoparticle corona. *FEBS Journal*, **2009**, 276, 3372-81	5.7	221
48	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, 7503-8	11.5	121
47	The nanoparticle protein corona formed in human blood or human blood fractions. *PLoS ONE*, **2017**, 12, e0175871	3.7	112
46	Nanoplastics formed during the mechanical breakdown of daily-use polystyrene products. *Nanoscale Advances*, **2019**, 1, 1055-1061	5.1	101
45	Structural changes in apolipoproteins bound to nanoparticles. *Langmuir*, **2011**, 27, 14360-9	4	88
44	Silver and gold nanoparticles exposure to in vitro cultured retina--studies on nanoparticle internalization, apoptosis, oxidative stress, glial- and microglial activity. *PLoS ONE*, **2014**, 9, e105359	3.7	72
43	Understanding the Lipid and Protein Corona Formation on Different Sized Polymeric Nanoparticles. *Scientific Reports*, **2020**, 10, 1129	4.9	68

42	Detailed Identification of Plasma Proteins Adsorbed on Copolymer Nanoparticles. *Angewandte Chemie*, **2007**, 119, 5856-5858	3.6	67
41	IgG and fibrinogen driven nanoparticle aggregation. *Nano Research*, **2015**, 8, 2733-2743	10	58
40	Size-dependent effects of nanoparticles on enzymes in the blood coagulation cascade. *Nano Letters* , **2014**, 14, 4736-44	11.5	58
39	Polystyrene nanoparticles affecting blood coagulation. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2012**, 8, 981-6	6	58
38	Long-term exposure to nanoplastics reduces life-time in Daphnia magna. *Scientific Reports*, **2020**, 10, 5979	4.9	36
37	Analysis of nanoparticle biomolecule complexes. *Nanoscale*, **2018**, 10, 4246-4257	7.7	33
36	Delivery success rate of engineered nanoparticles in the presence of the protein corona: a systems-level screening. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2012**, 8, 1271-81	6	33
35	Alpha1-microglobulin chromophores are located to three lysine residues semiburied in the lipocalin pocket and associated with a novel lipophilic compound. *Protein Science*, **1999**, 8, 2611-20	6.3	33
34	Coiled-coil structure of group A streptococcal M proteins. Different temperature stability of class A and C proteins by hydrophobic-nonhydrophobic amino acid substitutions at heptad positions a and d. *Biochemistry*, **1997**, 36, 4987-94	3.2	32
33	Real-time in situ analysis of biocorona formation and evolution on silica nanoparticles in defined and complex biological environments. *Nanoscale*, **2017**, 9, 3620-3628	7.7	31
32	Autocatalytic amplification of Alzheimer-associated A□2 peptide aggregation in human cerebrospinal fluid. *Communications Biology*, **2019**, 2, 365	6.7	28
31	Biocompatibility of mannan nanogel--safe interaction with plasma proteins. *Biochimica Et Biophysica Acta - General Subjects*, **2012**, 1820, 1043-51	4	24
30	Processing and secretion of rat alpha 1-microglobulin-bikunin expressed in eukaryotic cell lines. *FEBS Letters*, **1994**, 354, 57-61	3.8	22
29	Translocation of 40 nm diameter nanowires through the intestinal epithelium of Daphnia magna. *Nanotoxicology*, **2016**, 10, 1160-7	5.3	22
28	Analysis of nanoparticle-protein coronas formed in vitro between nanosized welding particles and nasal lavage proteins. *Nanotoxicology*, **2016**, 10, 226-34	5.3	22
27	Mathematical modeling of the protein corona: implications for nanoparticulate delivery systems. *Nanomedicine*, **2014**, 9, 851-8	5.6	19
26	Redox sensitive cysteine residues in calbindin D28k are structurally and functionally important. *Biochemistry*, **2005**, 44, 684-93	3.2	19
25	Deamidation and disulfide bridge formation in human calbindin D28k with effects on calcium binding. *Protein Science*, **2005**, 14, 968-79	6.3	18

24	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	3.6	16
23	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	7.1	14
22	Analysis of complexes formed by small gold nanoparticles in low concentration in cell culture media. *PLoS ONE*, **2019**, 14, e0218211	3.7	12
21	Long-term effects of tungsten carbide (WC) nanoparticles in pelagic and benthic aquatic ecosystems. *Nanotoxicology*, **2018**, 12, 79-89	5.3	12
20	Analysis of the length distribution of amyloid fibrils by centrifugal sedimentation. *Analytical Biochemistry*, **2016**, 504, 7-13	3.1	10
19	Three Decades of Research about the Corona Around Nanoparticles: Lessons Learned and Where to Go Now. *Small*, **2020**, 16, e2000892	11	9
18	Electron microscopy imaging of proteins on gallium phosphide semiconductor nanowires. *Nanoscale*, **2016**, 8, 3936-43	7.7	8
17	Disaggregation of gold nanoparticles by. *Nanotoxicology*, **2018**, 12, 885-900	5.3	8
16	Rapid and Facile Purification of Apolipoprotein A-I from Human Plasma Using Thermoresponsive Nanoparticles. *Journal of Biomaterials and Nanobiotechnology*, **2011**, 02, 258-266	1	8
15	Nanoparticle effect on neutrophil produced myeloperoxidase. *PLoS ONE*, **2018**, 13, e0191445	3.7	8
14	Calbindin D28k EF-hand ligand binding and oligomerization: four high-affinity sites--three modes of action. *Biochemistry*, **2005**, 44, 13522-32	3.2	7
13	Direct deposition of gas phase generated aerosol gold nanoparticles into biological fluids--corona formation and particle size shifts. *PLoS ONE*, **2013**, 8, e74702	3.7	7
12	Calcium-dependent interaction of calmodulin with human 80S ribosomes and polyribosomes. *Biochemistry*, **2012**, 51, 6718-27	3.2	6
11	Controlled protein mediated aggregation of polystyrene nanoplastics does not reduce toxicity towards Daphnia magna. *Environmental Science: Nano*, **2020**, 7, 1518-1524	7.1	4
10	Protein Interactions with Microballoons: Consequences for Biocompatibility and Application as Contrast Agents **2010**, 53-66		3
9	Adsorption of bio-organic eco-corona molecules reduces the toxic response to metallic nanoparticles in Daphnia magna. *Scientific Reports*, **2021**, 11, 10784	4.9	3
8	Nanomaterials in the European chemicals legislation methodological challenges for registration and environmental safety assessment. *Environmental Science: Nano*, **2021**, 8, 731-747	7.1	3
7	A Method for Investigation of Size-Dependent Protein Binding to Nanoholes Using Intrinsic Fluorescence of Proteins. *ACS Omega*, **2017**, 2, 4772-4778	3.9	2

List of Publications

6	Size fractionation of high-density polyethylene breakdown nanoplastics reveals different toxic response in Daphnia magna.. *Scientific Reports*, **2022**, 12, 3109	4.9	2
5	Workshop on Environmental Nanosafety: Biological Interactions of Plastic Nanoparticles. *Journal of Chemical Education*, **2019**, 96, 1967-1970	2.4	1
4	Transfer of Cobalt Nanoparticles in a Simplified Food Web: From Algae to Zooplankton to Fish. *Applied Nano*, **2021**, 2, 184-205	1	1
3	Heat elution chromatography of immunoglobulins. *Protein Expression and Purification*, **2003**, 30, 301-3	2	
2	Dual topography of laminin corona on gallium arsenide nanowires. *Biointerphases*, **2020**, 15, 051007	1.8	
1	Mathematical Modeling of the Protein Corona: Implications for Nanoparticulate Delivery Systems. *Frontiers in Nanobiomedical Research*, **2016**, 53-65		