Aleksandr Kakinen

List of Publications by Citations

58 papers	2,483 citations	26 h-index	49 g-index
63 ext. papers	2,959 ext. citations	9.2 avg, IF	5 L-index

#	Paper	IF	Citations
58	Size-dependent toxicity of silver nanoparticles to bacteria, yeast, algae, crustaceans and mammalian cells in vitro. *PLoS ONE*, **2014**, 9, e102108	3.7	388
57	Implications of peptide assemblies in amyloid diseases. *Chemical Society Reviews*, **2017**, 46, 6492-6531	58.5	198
56	Particle-cell contact enhances antibacterial activity of silver nanoparticles. *PLoS ONE*, **2013**, 8, e64060	3.7	175
55	Sub-toxic effects of CuO nanoparticles on bacteria: kinetics, role of Cu ions and possible mechanisms of action. *Environmental Pollution*, **2012**, 169, 81-9	9.3	157
54	Toxicity of 11 Metal Oxide Nanoparticles to Three Mammalian Cell Types In Vitro. *Current Topics in Medicinal Chemistry*, **2015**, 15, 1914-29	3	151
53	Toxicity of two types of silver nanoparticles to aquatic crustaceans Daphnia magna and Thamnocephalus platyurus. *Environmental Science and Pollution Research*, **2013**, 20, 3456-63	5.1	96
52	Inhibition of hIAPP Amyloid Aggregation and Pancreatic □Cell Toxicity by OH-Terminated PAMAM Dendrimer. *Small*, **2016**, 12, 1615-26	11	83
51	Stabilizing Off-pathway Oligomers by Polyphenol Nanoassemblies for IAPP Aggregation Inhibition. *Scientific Reports*, **2016**, 6, 19463	4.9	81
50	Inhibition of amyloid beta toxicity in zebrafish with a chaperone-gold nanoparticle dual strategy. *Nature Communications*, **2019**, 10, 3780	17.4	77
49	Graphene quantum dots against human IAPP aggregation and toxicity in vivo. *Nanoscale*, **2018**, 10, 19995-20006	7.7	67
48	Competitive binding of natural amphiphiles with graphene derivatives. *Scientific Reports*, **2013**, 3, 2273	4.9	56
47	Mitigation of Amyloidosis with Nanomaterials. *Advanced Materials*, **2020**, 32, e1901690	24	50
46	Star Polymers Reduce Islet Amyloid Polypeptide Toxicity via Accelerated Amyloid Aggregation. *Biomacromolecules*, **2017**, 18, 4249-4260	6.9	47
45	Mitigating Human IAPP Amyloidogenesis In Vivo with Chiral Silica Nanoribbons. *Small*, **2018**, 14, e1802825	11	44
44	The effect of composition of different ecotoxicological test media on free and bioavailable copper from CuSO4 and CuO nanoparticles: comparative evidence from a Cu-selective electrode and a Cu-biosensor. *Sensors*, **2011**, 11, 10502-21	3.8	43
43	Differential effects of silver and iron oxide nanoparticles on IAPP amyloid aggregation. *Biomaterials Science*, **2017**, 5, 485-493	7.4	41
42	An interlaboratory comparison of nanosilver characterisation and hazard identification: Harmonising techniques for high quality data. *Environment International*, **2016**, 87, 20-32	12.9	38

41	Interaction of firefly luciferase and silver nanoparticles and its impact on enzyme activity. *Nanotechnology*, **2013**, 24, 345101	3.4	37
40	Cofibrillization of Pathogenic and Functional Amyloid Proteins with Gold Nanoparticles against Amyloidogenesis. *Biomacromolecules*, **2017**, 18, 4316-4322	6.9	36
39	NanoEHS beyond Toxicity - Focusing on Biocorona. *Environmental Science: Nano*, **2017**, 7, 1433-1454	7.1	33
38	In Vivo Mitigation of Amyloidogenesis through Functional-Pathogenic Double-Protein Coronae. *Nano Letters*, **2018**, 18, 5797-5804	11.5	31
37	Pancreatic □Cell Membrane Fluidity and Toxicity Induced by Human Islet Amyloid Polypeptide Species. *Scientific Reports*, **2016**, 6, 21274	4.9	31
36	Synthesis and in vitro properties of iron oxide nanoparticles grafted with brushed phosphorylcholine and polyethylene glycol. *Polymer Chemistry*, **2016**, 7, 1931-1944	4.9	29
35	Profiling the Serum Protein Corona of Fibrillar Human Islet Amyloid Polypeptide. *ACS Nano*, **2018**, 12, 6066-6078	16.7	28
34	Probing the Aggregation and Immune Response of Human Islet Amyloid Polypeptides with Ligand-Stabilized Gold Nanoparticles. *ACS Applied Materials & Interfaces*, **2019**, 11, 10462-10471	9.5	27
33	Nanoscale inhibition of polymorphic and ambidextrous IAPP amyloid aggregation with small molecules. *Nano Research*, **2018**, 11, 3636-3647	10	26
32	Amphiphilic surface chemistry of fullerenols is necessary for inhibiting the amyloid aggregation of alpha-synuclein NACore. *Nanoscale*, **2019**, 11, 11933-11945	7.7	25
31	Effects of Protein Corona on IAPP Amyloid Aggregation, Fibril Remodelling, and Cytotoxicity. *Scientific Reports*, **2017**, 7, 2455	4.9	25
30	Environmental hazard of oil shale combustion fly ash. *Journal of Hazardous Materials*, **2012**, 229-230, 192-200	12.8	25
29	Amyloid Self-Assembly of hIAPP8-20 via the Accumulation of Helical Oligomers, □Helix to □Sheet Transition, and Formation of □Barrel Intermediates. *Small*, **2019**, 15, e1805166	11	24
28	Nucleation of □ich oligomers and □barrels in the early aggregation of human islet amyloid polypeptide. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2019**, 1865, 434-444	6.9	24
27	Uptake and transcytosis of functionalized superparamagnetic iron oxide nanoparticles in an in vitro blood brain barrier model. *Biomaterials Science*, **2018**, 6, 314-323	7.4	24
26	Graphene quantum dots rescue protein dysregulation of pancreatic □cells exposed to human islet amyloid polypeptide. *Nano Research*, **2019**, 12, 2827-2834	10	22
25	Plasma Proteome Association and Catalytic Activity of Stealth Polymer-Grafted Iron Oxide Nanoparticles. *Small*, **2017**, 13, 1701528	11	19
24	Serum albumin impedes the amyloid aggregation and hemolysis of human islet amyloid polypeptide and alpha synuclein. *Biochimica Et Biophysica Acta - Biomembranes*, **2018**, 1860, 1803-1809	3.8	18

23	Zinc-coordination and C-peptide complexation: a potential mechanism for the endogenous inhibition of IAPP aggregation. *Chemical Communications*, **2017**, 53, 9394-9397	5.8	18
22	Single-Molecular Heteroamyloidosis of Human Islet Amyloid Polypeptide. *Nano Letters*, **2019**, 19, 6535-6546	11.5	17
21	Solubility-driven toxicity of CuO nanoparticles to Caco2 cells and Escherichia coli: Effect of sonication energy and test environment. *Toxicology in Vitro*, **2016**, 36, 172-179	3.6	17
20	Nanoparticle-proteome in vitro and in vivo. *Journal of Materials Chemistry B*, **2018**, 6, 6026-6041	7.3	16
19	Spontaneous Formation of β-sheet Nano-barrels during the Early Aggregation of Alzheimer's Amyloid Beta. *Nano Today*, **2021**, 38,	17.9	16
18	Brushed polyethylene glycol and phosphorylcholine for grafting nanoparticles against protein binding. *Polymer Chemistry*, **2016**, 7, 6875-6879	4.9	16
17	Nanotoxicology and nanomedicine: The Yin and Yang of nano-bio interactions for the new decade. *Nano Today*, **2021**, 39, 101184	17.9	16
16	Physical and Toxicological Profiles of Human IAPP Amyloids and Plaques. *Science Bulletin*, **2019**, 64, 26-35	10.6	15
15	Human Plasma Protein Corona of Aβ Amyloid and Its Impact on Islet Amyloid Polypeptide Cross-Seeding. *Biomacromolecules*, **2020**, 21, 988-998	6.9	12
14	Ultrasmall Molybdenum Disulfide Quantum Dots Cage Alzheimer's Amyloid Beta to Restore Membrane Fluidity. *ACS Applied Materials & Interfaces*, **2021**, 13, 29936-29948	9.5	9
13	Selective performance of sol-gel synthesised titanium dioxide photocatalysts in aqueous oxidation of various-type organic pollutants. *Kinetics and Catalysis*, **2014**, 55, 47-55	1.5	8
12	Lysophosphatidylcholine modulates the aggregation of human islet amyloid polypeptide. *Physical Chemistry Chemical Physics*, **2017**, 19, 30627-30635	3.6	8
11	Amyloid Aggregation under the Lens of Liquid-Liquid Phase Separation. *Journal of Physical Chemistry Letters*, **2021**, 12, 368-378	6.4	7
10	In vitro and in vivo models for anti-amyloidosis nanomedicines. *Nanoscale Horizons*, **2021**, 6, 95-119	10.8	6
9	A Framework of Paracellular Transport via Nanoparticles-Induced Endothelial Leakiness. *Advanced Science*, **2021**, 8, e2102519	13.6	5
8	The membrane axis of Alzheimer's nanomedicine. *Advanced NanoBiomed Research*, **2021**, 1, 2000040	0	4
7	Inhibition of Amyloid Aggregation and Toxicity with Janus Iron Oxide Nanoparticles. *Chemistry of Materials*, **2021**, 33, 6484-6500	9.6	4
6	Aqueous photocatalytic oxidation of prednisolone. *Open Chemistry*, **2013**, 11, 1620-1633	1.6	3

5	Graphene quantum dots obstruct the membrane axis of Alzheimer's amyloid beta. *Physical Chemistry Chemical Physics*, **2021**,	3.6	3
4	Dynamic Protein Corona of Gold Nanoparticles with an Evolving Morphology. *ACS Applied Materials & Interfaces*, **2021**, 13, 58238-58251	9.5	3
3	Peptide Self-Assembly: Amyloid Self-Assembly of hIAPP8-20 via the Accumulation of Helical Oligomers, α-Helix to β-Sheet Transition, and Formation of β-Barrel Intermediates (Small 18/2019). *Small*, **2019**, 15, 1970093	11	1
2	Amyloidosis: Mitigation of Amyloidosis with Nanomaterials (Adv. Mater. 18/2020). *Advanced Materials*, **2020**, 32, 2070146	24	0
1	Structure Dependent Differential Modulation of Aβ Fibrillization by Selenadiazole-Based Inhibitors. *ACS Chemical Neuroscience*, **2021**, 12, 3806-3817	5.7	0