

# Aleksandr Kakinen

## 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.

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	Graphene quantum dots obstruct the membrane axis of Alzheimer's amyloid beta. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> ,	3.6	3
57	Dynamic Protein Corona of Gold Nanoparticles with an Evolving Morphology. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 58238-58251	9.5	3
56	Amyloid Aggregation under the Lens of Liquid-Liquid Phase Separation. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 368-378	6.4	7
55	Spontaneous Formation of Sheet Nano-barrels during the Early Aggregation of Alzheimer's Amyloid Beta. <i>Nano Today</i> , <b>2021</b> , 38,	17.9	16
54	Ultrasmall Molybdenum Disulfide Quantum Dots Cage Alzheimer's Amyloid Beta to Restore Membrane Fluidity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 29936-29948	9.5	9
53	The membrane axis of Alzheimer's nanomedicine. <i>Advanced NanoBiomed Research</i> , <b>2021</b> , 1, 2000040	0	4
52	In vitro and in vivo models for anti-amyloidosis nanomedicines. <i>Nanoscale Horizons</i> , <b>2021</b> , 6, 95-119	10.8	6
51	Inhibition of Amyloid Aggregation and Toxicity with Janus Iron Oxide Nanoparticles. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 6484-6500	9.6	4
50	Nanotoxicology and nanomedicine: The Yin and Yang of nano-bio interactions for the new decade. <i>Nano Today</i> , <b>2021</b> , 39, 101184	17.9	16
49	A Framework of Paracellular Transport via Nanoparticles-Induced Endothelial Leakiness. <i>Advanced Science</i> , <b>2021</b> , 8, e2102519	13.6	5
48	Structure Dependent Differential Modulation of Aβ Fibrillization by Selenadiazole-Based Inhibitors. <i>ACS Chemical Neuroscience</i> , <b>2021</b> , 12, 3806-3817	5.7	0
47	Amyloidosis: Mitigation of Amyloidosis with Nanomaterials (Adv. Mater. 18/2020). <i>Advanced Materials</i> , <b>2020</b> , 32, 2070146	24	0
46	Human Plasma Protein Corona of Aβ Amyloid and Its Impact on Islet Amyloid Polypeptide Cross-Seeding. <i>Biomacromolecules</i> , <b>2020</b> , 21, 988-998	6.9	12
45	Mitigation of Amyloidosis with Nanomaterials. <i>Advanced Materials</i> , <b>2020</b> , 32, e1901690	24	50
44	Single-Molecular Heteroamyloidosis of Human Islet Amyloid Polypeptide. <i>Nano Letters</i> , <b>2019</b> , 19, 6535-6546	17.4	17
43	Inhibition of amyloid beta toxicity in zebrafish with a chaperone-gold nanoparticle dual strategy. <i>Nature Communications</i> , <b>2019</b> , 10, 3780	17.4	77
42	Graphene quantum dots rescue protein dysregulation of pancreatic β cells exposed to human islet amyloid polypeptide. <i>Nano Research</i> , <b>2019</b> , 12, 2827-2834	10	22

41	Probing the Aggregation and Immune Response of Human Islet Amyloid Polypeptides with Ligand-Stabilized Gold Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 10462-10471	9.5	27
40	Amphiphilic surface chemistry of fullerenols is necessary for inhibiting the amyloid aggregation of alpha-synuclein NACore. <i>Nanoscale</i> , <b>2019</b> , 11, 11933-11945	7.7	25
39	Peptide Self-Assembly: Amyloid Self-Assembly of hIAPP8-20 via the Accumulation of Helical Oligomers, $\beta$ Helix to $\beta$ Sheet Transition, and Formation of $\beta$ Barrel Intermediates (Small 18/2019). <i>Small</i> , <b>2019</b> , 15, 1970093	11	1
38	Amyloid Self-Assembly of hIAPP8-20 via the Accumulation of Helical Oligomers, $\beta$ Helix to $\beta$ Sheet Transition, and Formation of $\beta$ Barrel Intermediates. <i>Small</i> , <b>2019</b> , 15, e1805166	11	24
37	Physical and Toxicological Profiles of Human IAPP Amyloids and Plaques. <i>Science Bulletin</i> , <b>2019</b> , 64, 26-35	10.6	15
36	Nucleation of $\beta$ Rich oligomers and $\beta$ barrels in the early aggregation of human islet amyloid polypeptide. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2019</b> , 1865, 434-444	6.9	24
35	Serum albumin impedes the amyloid aggregation and hemolysis of human islet amyloid polypeptide and alpha synuclein. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2018</b> , 1860, 1803-1809	3.8	18
34	Nanoparticle-proteome in vitro and in vivo. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 6026-6041	7.3	16
33	In Vivo Mitigation of Amyloidogenesis through Functional-Pathogenic Double-Protein Coronae. <i>Nano Letters</i> , <b>2018</b> , 18, 5797-5804	11.5	31
32	Nanoscale inhibition of polymorphic and ambidextrous IAPP amyloid aggregation with small molecules. <i>Nano Research</i> , <b>2018</b> , 11, 3636-3647	10	26
31	Uptake and transcytosis of functionalized superparamagnetic iron oxide nanoparticles in an in vitro blood brain barrier model. <i>Biomaterials Science</i> , <b>2018</b> , 6, 314-323	7.4	24
30	Graphene quantum dots against human IAPP aggregation and toxicity in vivo. <i>Nanoscale</i> , <b>2018</b> , 10, 19995-20006	7.7	27
29	Mitigating Human IAPP Amyloidogenesis In Vivo with Chiral Silica Nanoribbons. <i>Small</i> , <b>2018</b> , 14, e1802825	11	44
28	Profiling the Serum Protein Corona of Fibrillar Human Islet Amyloid Polypeptide. <i>ACS Nano</i> , <b>2018</b> , 12, 6066-6078	16.7	28
27	Differential effects of silver and iron oxide nanoparticles on IAPP amyloid aggregation. <i>Biomaterials Science</i> , <b>2017</b> , 5, 485-493	7.4	41
26	NanoEHS beyond Toxicity - Focusing on Biocorona. <i>Environmental Science: Nano</i> , <b>2017</b> , 7, 1433-1454	7.1	33
25	Star Polymers Reduce Islet Amyloid Polypeptide Toxicity via Accelerated Amyloid Aggregation. <i>Biomacromolecules</i> , <b>2017</b> , 18, 4249-4260	6.9	47
24	Zinc-coordination and C-peptide complexation: a potential mechanism for the endogenous inhibition of IAPP aggregation. <i>Chemical Communications</i> , <b>2017</b> , 53, 9394-9397	5.8	18

23	Plasma Proteome Association and Catalytic Activity of Stealth Polymer-Grafted Iron Oxide Nanoparticles. <i>Small</i> , <b>2017</b> , 13, 1701528	11	19
22	Lysophosphatidylcholine modulates the aggregation of human islet amyloid polypeptide. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 30627-30635	3.6	8
21	Cofibrillization of Pathogenic and Functional Amyloid Proteins with Gold Nanoparticles against Amyloidogenesis. <i>Biomacromolecules</i> , <b>2017</b> , 18, 4316-4322	6.9	36
20	Implications of peptide assemblies in amyloid diseases. <i>Chemical Society Reviews</i> , <b>2017</b> , 46, 6492-6531	58.5	198
19	Effects of Protein Corona on IAPP Amyloid Aggregation, Fibril Remodelling, and Cytotoxicity. <i>Scientific Reports</i> , <b>2017</b> , 7, 2455	4.9	25
18	Inhibition of hIAPP Amyloid Aggregation and Pancreatic $\beta$ Cell Toxicity by OH-Terminated PAMAM Dendrimer. <i>Small</i> , <b>2016</b> , 12, 1615-26	11	83
17	Synthesis and in vitro properties of iron oxide nanoparticles grafted with brushed phosphorylcholine and polyethylene glycol. <i>Polymer Chemistry</i> , <b>2016</b> , 7, 1931-1944	4.9	29
16	An interlaboratory comparison of nanosilver characterisation and hazard identification: Harmonising techniques for high quality data. <i>Environment International</i> , <b>2016</b> , 87, 20-32	12.9	38
15	Pancreatic $\beta$ Cell Membrane Fluidity and Toxicity Induced by Human Islet Amyloid Polypeptide Species. <i>Scientific Reports</i> , <b>2016</b> , 6, 21274	4.9	31
14	Stabilizing Off-pathway Oligomers by Polyphenol Nanoassemblies for IAPP Aggregation Inhibition. <i>Scientific Reports</i> , <b>2016</b> , 6, 19463	4.9	81
13	Brushed polyethylene glycol and phosphorylcholine for grafting nanoparticles against protein binding. <i>Polymer Chemistry</i> , <b>2016</b> , 7, 6875-6879	4.9	16
12	Solubility-driven toxicity of CuO nanoparticles to Caco2 cells and Escherichia coli: Effect of sonication energy and test environment. <i>Toxicology in Vitro</i> , <b>2016</b> , 36, 172-179	3.6	17
11	Toxicity of 11 Metal Oxide Nanoparticles to Three Mammalian Cell Types In Vitro. <i>Current Topics in Medicinal Chemistry</i> , <b>2015</b> , 15, 1914-29	3	151
10	Selective performance of sol-gel synthesised titanium dioxide photocatalysts in aqueous oxidation of various-type organic pollutants. <i>Kinetics and Catalysis</i> , <b>2014</b> , 55, 47-55	1.5	8
9	Size-dependent toxicity of silver nanoparticles to bacteria, yeast, algae, crustaceans and mammalian cells in vitro. <i>PLoS ONE</i> , <b>2014</b> , 9, e102108	3.7	388
8	Competitive binding of natural amphiphiles with graphene derivatives. <i>Scientific Reports</i> , <b>2013</b> , 3, 2273	4.9	56
7	Interaction of firefly luciferase and silver nanoparticles and its impact on enzyme activity. <i>Nanotechnology</i> , <b>2013</b> , 24, 345101	3.4	37
6	Aqueous photocatalytic oxidation of prednisolone. <i>Open Chemistry</i> , <b>2013</b> , 11, 1620-1633	1.6	3

5	Toxicity of two types of silver nanoparticles to aquatic crustaceans <i>Daphnia magna</i> and <i>Thamnocephalus platyurus</i> . <i>Environmental Science and Pollution Research</i> , <b>2013</b> , 20, 3456-63	5.1	96
4	Particle-cell contact enhances antibacterial activity of silver nanoparticles. <i>PLoS ONE</i> , <b>2013</b> , 8, e64060	3.7	175
3	Sub-toxic effects of CuO nanoparticles on bacteria: kinetics, role of Cu ions and possible mechanisms of action. <i>Environmental Pollution</i> , <b>2012</b> , 169, 81-9	9.3	157
2	Environmental hazard of oil shale combustion fly ash. <i>Journal of Hazardous Materials</i> , <b>2012</b> , 229-230, 192-200	12.8	25
1	The effect of composition of different ecotoxicological test media on free and bioavailable copper from CuSO <sub>4</sub> and CuO nanoparticles: comparative evidence from a Cu-selective electrode and a Cu-biosensor. <i>Sensors</i> , <b>2011</b> , 11, 10502-21	3.8	43