

Alexander K Andrianov

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

2,738
citations

172386

29
h-index

189801

50
g-index

80
all docs

80
docs citations

80
times ranked

1935
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Microneedle-Based Vaccines. <i>Current Topics in Microbiology and Immunology</i> , 2009, 333, 369-393. | 0.7 | 229 |
| 2 | Poly[di(carboxylatophenoxy)phosphazene] is a potent adjuvant for intradermal immunization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 18936-18941. | 3.3 | 141 |
| 3 | Polymeric carriers for oral uptake of microparticulates. <i>Advanced Drug Delivery Reviews</i> , 1998, 34, 155-170. | 6.6 | 138 |
| 4 | Synthesis and Biologically Relevant Properties of Polyphosphazene Polyacids. <i>Biomacromolecules</i> , 2004, 5, 1999-2006. | 2.6 | 111 |
| 5 | Protein release from polyphosphazene matrices. <i>Advanced Drug Delivery Reviews</i> , 1998, 31, 185-196. | 6.6 | 109 |
| 6 | Poly[di(carboxylatophenoxy)phosphazene] (PCPP) is a potent immunoadjuvant for an influenza vaccine. <i>Vaccine</i> , 1998, 16, 92-98. | 1.7 | 102 |
| 7 | Poly[di(sodium carboxylatoethylphenoxy)phosphazene] (PCEP) is a potent enhancer of mixed Th1/Th2 immune responses in mice immunized with influenza virus antigens. <i>Vaccine</i> , 2007, 25, 1204-1213. | 1.7 | 100 |
| 8 | Polyphosphazene Polyelectrolytes: A Link between the Formation of Noncovalent Complexes with Antigenic Proteins and Immunostimulating Activity. <i>Biomacromolecules</i> , 2005, 6, 1375-1379. | 2.6 | 97 |
| 9 | Polyionic vaccine adjuvants: another look at aluminum salts and polyelectrolytes. <i>Clinical and Experimental Vaccine Research</i> , 2015, 4, 23. | 1.1 | 91 |
| 10 | Preparation of hydrogel microspheres by coacervation of aqueous polyphosphazene solutions. <i>Biomaterials</i> , 1998, 19, 109-115. | 5.7 | 88 |
| 11 | Synthesis, Properties, and Biological Activity of Poly[di(sodium) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 342 Tj d (carboxylatoethylphenoxy)phosphazene]. <i>Biomacromolecules</i> , 2005, 6, 1375-1379. | 2.6 | 85 |
| 12 | Poly(dichlorophosphazene) As a Precursor for Biologically Active Polyphosphazenes: Synthesis, Characterization, and Stabilization. <i>Macromolecules</i> , 2004, 37, 414-420. | 2.2 | 83 |
| 13 | Rational design of a trispecific antibody targeting the HIV-1 Env with elevated anti-viral activity. <i>Nature Communications</i> , 2018, 9, 877. | 5.8 | 65 |
| 14 | Controlled release using ionotropic polyphosphazene hydrogels. <i>Journal of Controlled Release</i> , 1993, 27, 69-77. | 4.8 | 64 |
| 15 | Degradation of Polyaminophosphazenes: Effects of Hydrolytic Environment and Polymer Processing. <i>Biomacromolecules</i> , 2006, 7, 1581-1586. | 2.6 | 60 |
| 16 | Water-Soluble Phosphazene Polymers for Parenteral and Mucosal Vaccine Delivery. <i>Pharmaceutical Biotechnology</i> , 1995, 6, 473-493. | 0.3 | 57 |
| 17 | Water-Soluble Biodegradable Polyphosphazenes Containing N-Ethylpyrrolidone Groups. <i>Macromolecules</i> , 2005, 38, 7972-7976. | 2.2 | 53 |
| 18 | Effect of Environmental Factors on Hydrolytic Degradation of Water-Soluble Polyphosphazene Polyelectrolyte in Aqueous Solutions. <i>Biomacromolecules</i> , 2010, 11, 2033-2038. | 2.6 | 52 |

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|----|--|-----|-----------|
| 19 | Hydrolytic degradation of ionically cross-linked polyphosphazene microspheres. <i>Journal of Applied Polymer Science</i> , 1994, 53, 1573-1578. | 1.3 | 43 |
| 20 | Molecular-Level Interactions of Polyphosphazene Immunoadjuvants and Their Potential Role in Antigen Presentation and Cell Stimulation. <i>Biomacromolecules</i> , 2016, 17, 3732-3742. | 2.6 | 43 |
| 21 | Novel Route to Sulfonated Polyphosphazenes: A Single-Step Synthesis Using a Noncovalent Protection of Sulfonic Acid Functionality. <i>Macromolecules</i> , 2004, 37, 4075-4080. | 2.2 | 41 |
| 22 | Biodegradable Smart Polyphosphazenes with Intrinsic Multifunctionality as Intracellular Protein Delivery Vehicles. <i>Biomacromolecules</i> , 2017, 18, 2000-2011. | 2.6 | 41 |
| 23 | Polyphosphazene microspheres: Preparation by ionic complexation of phosphazene polyacids with spermine. <i>Journal of Applied Polymer Science</i> , 2006, 101, 414-419. | 1.3 | 40 |
| 24 | Microneedles with Intrinsic Immunoadjuvant Properties: Microfabrication, Protein Stability, and Modulated Release. <i>Pharmaceutical Research</i> , 2011, 28, 58-65. | 1.7 | 40 |
| 25 | Water-Soluble Polyphosphazenes for Biomedical Applications. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2007, 16, 397-406. | 1.9 | 38 |
| 26 | Protein Stabilization in Aqueous Solutions of Polyphosphazene Polyelectrolyte and Non-Ionic Surfactants. <i>Biomacromolecules</i> , 2010, 11, 2268-2273. | 2.6 | 38 |
| 27 | Biodegradable Polyphosphazene Based Peptide-Polymer Hybrids. <i>Polymers</i> , 2016, 8, 161. | 2.0 | 33 |
| 28 | Polyphosphazene immunoadjuvants: Historical perspective and recent advances. <i>Journal of Controlled Release</i> , 2021, 329, 299-315. | 4.8 | 33 |
| 29 | Characterization of poly[di(carboxylatophenoxy) phosphazene] by an aqueous gel permeation chromatography. <i>Journal of Applied Polymer Science</i> , 1996, 60, 2289-2295. | 1.3 | 31 |
| 30 | Synthesis, Physico-Chemical Properties and Immunoadjuvant Activity of Water-Soluble Phosphazene Polyacids. <i>Journal of Bioactive and Compatible Polymers</i> , 1998, 13, 243-256. | 0.8 | 30 |
| 31 | PCPP-Formulated H5N1 Influenza Vaccine Displays Improved Stability and Dose-Sparing Effect in Lethal Challenge Studies. <i>Journal of Pharmaceutical Sciences</i> , 2011, 100, 1436-1443. | 1.6 | 30 |
| 32 | The effect of stable macromolecular complexes of ionic polyphosphazene on HIV Gag antigen and on activation of human dendritic cells and presentation to T-cells. <i>Biomaterials</i> , 2014, 35, 8876-8886. | 5.7 | 30 |
| 33 | Hydrolytically Degradable PEGylated Polyelectrolyte Nanocomplexes for Protein Delivery. <i>Biomacromolecules</i> , 2018, 19, 3467-3478. | 2.6 | 29 |
| 34 | PCPP-Adjuvanted Respiratory Syncytial Virus (RSV) sF Subunit Vaccine: Self-Assembled Supramolecular Complexes Enable Enhanced Immunogenicity and Protection. <i>Molecular Pharmaceutics</i> , 2017, 14, 2285-2293. | 2.3 | 28 |
| 35 | Biocompatible Nanocoatings of Fluorinated Polyphosphazenes through Aqueous Assembly. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 9756-9764. | 4.0 | 28 |
| 36 | Carboxymethylcellulose-Chitosan-coated microneedles with modulated hydration properties. <i>Journal of Applied Polymer Science</i> , 2011, 121, 395-401. | 1.3 | 26 |

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|----|---|-----|-----------|
| 37 | Polyphosphazenes enable durable, hemocompatible, highly efficient antibacterial coatings. <i>Biomaterials</i> , 2021, 268, 120586. | 5.7 | 26 |
| 38 | Supramolecular Assembly of Toll-like Receptor 7/8 Agonist into Multimeric Water-Soluble Constructs Enables Superior Immune Stimulation <i>In Vitro</i> and <i>In Vivo</i> . <i>ACS Applied Bio Materials</i> , 2020, 3, 3187-3195. | 2.3 | 23 |
| 39 | Fluorinated polyphosphazene polyelectrolytes. <i>Journal of Applied Polymer Science</i> , 2007, 103, 53-58. | 1.3 | 21 |
| 40 | Self-assembly of polyphosphazene immunoadjuvant with poly(ethylene oxide) enables advanced nanoscale delivery modalities and regulated pH-dependent cellular membrane activity. <i>Heliyon</i> , 2016, 2, e00102. | 1.4 | 20 |
| 41 | Design of a native-like secreted form of the hepatitis C virus E1E2 heterodimer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, . | 3.3 | 19 |
| 42 | Structure-Based Design of Hepatitis C Virus E2 Glycoprotein Improves Serum Binding and Cross-Neutralization. <i>Journal of Virology</i> , 2020, 94, . | 1.5 | 17 |
| 43 | Transport Properties of Polyphosphazenes. , 0, , 325-344. | | 16 |
| 44 | <i>In Vivo</i> and <i>In Vitro</i> Potency of Polyphosphazene Immunoadjuvants with Hepatitis C Virus Antigen and the Role of Their Supramolecular Assembly. <i>Molecular Pharmaceutics</i> , 2021, 18, 726-734. | 2.3 | 16 |
| 45 | Intradermal immunization using coated microneedles containing an immunoadjuvant. <i>Vaccine</i> , 2012, 30, 4355-4360. | 1.7 | 15 |
| 46 | Protein-loaded soluble and nanoparticulate formulations of ionic polyphosphazenes and their interactions on molecular and cellular levels. <i>Materials Science and Engineering C</i> , 2020, 106, 110179. | 3.8 | 15 |
| 47 | Next generation polyphosphazene immunoadjuvant: Synthesis, self-assembly and in vivo potency with human papillomavirus VLPs-based vaccine. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2021, 33, 102359. | 1.7 | 13 |
| 48 | New Family of Water-Soluble Sulfo-Fluoro Polyphosphazenes and Their Assembly within Hemocompatible Nanocoatings. <i>ACS Applied Bio Materials</i> , 2019, 2, 3897-3906. | 2.3 | 11 |
| 49 | Improvement of RG1-VLP vaccine performance in BALB/c mice by substitution of alhydrogel with the next generation polyphosphazene adjuvant PCEP. <i>Human Vaccines and Immunotherapeutics</i> , 2021, 17, 2748-2761. | 1.4 | 11 |
| 50 | Polyphosphazenes as Vaccine Adjuvants. , 0, , 355-378. | | 10 |
| 51 | Intracellular Delivery of Active Proteins by Polyphosphazene Polymers. <i>Pharmaceutics</i> , 2021, 13, 249. | 2.0 | 9 |
| 52 | Fluorinated Polyphosphazene Coatings Using Aqueous Nano-Assembly of Polyphosphazene Polyelectrolytes. <i>ACS Symposium Series</i> , 2018, , 101-118. | 0.5 | 8 |
| 53 | Immunopotentiating and Delivery Systems for HCV Vaccines. <i>Viruses</i> , 2021, 13, 981. | 1.5 | 7 |
| 54 | Induction of broadly neutralizing antibodies using a secreted form of the hepatitis C virus E1E2 heterodimer as a vaccine candidate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2112008119. | 3.3 | 7 |

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|----|---|-----|-----------|
| 55 | Hierarchically Structured, All-Aqueous-Coated Hydrophobic Surfaces with pH-Selective Droplet Transfer Capability. ACS Applied Materials & Interfaces, 2022, 14, 26225-26237. | 4.0 | 7 |
| 56 | Biodegradable Polyphosphazene Scaffolds for Tissue Engineering. , 0, , 117-138. | | 6 |
| 57 | Cationic Fluoropolyphosphazenes: Synthesis and Assembly with Heparin as a Pathway to Hemocompatible Nanocoatings. ACS Applied Bio Materials, 2022, 5, 313-321. | 2.3 | 6 |
| 58 | Ionically Cross-Linked Polyphosphazene Microspheres. ACS Symposium Series, 2000, , 395-406. | 0.5 | 5 |
| 59 | Expanding Options in Polyphosphazene Biomedical Research. , 0, , 15-43. | | 5 |
| 60 | Ionic Fluoropolyphosphazenes as Potential Adhesive Agents for Dental Restoration Applications. Regenerative Engineering and Translational Medicine, 2021, 7, 10-20. | 1.6 | 4 |
| 61 | Graft polymerization of vinyl monomers on the surface of solid inorganic materials photoinitiated by the systems $R\hat{r}-CCl_3$ -carbonyls of transition metals. Polymer Science USSR, 1984, 26, 2917-2923. | 0.2 | 3 |
| 62 | Kinetics of the solvolytic reaction between polymer hydrogels carrying oxime groups and $O,O\hat{e}^2$ -diethyl-O-p-nitrophenyl phosphate. Polymer Science USSR, 1991, 33, 1006-1012. | 0.2 | 3 |
| 63 | Potential of Polyphosphazenes in Modulating Vaccine-Induced Immune Responses: II. Investigations in Large Animals. , 0, , 77-84. | | 3 |
| 64 | Biodegradable $\hat{a}e$ Scaffold \hat{e} -Polyphosphazenes for Non-Covalent PEGylation of Proteins. ACS Symposium Series, 2018, , 121-141. | 0.5 | 3 |
| 65 | The study of photo-initiated graft polymerization of vinyl monomers on inorganic materials. Polymer Science USSR, 1983, 25, 2314-2320. | 0.2 | 2 |
| 66 | Nano-Assembly of Quisinostat and Biodegradable Macromolecular Carrier Results in Supramolecular Complexes with Slow-Release Capabilities. Pharmaceutics, 2021, 13, 1834. | 2.0 | 2 |
| 67 | Self-Assembling Ionic Polyphosphazenes and Their Biomedical Applications. ACS Symposium Series, 2018, , 27-49. | 0.5 | 1 |
| 68 | Radical graft polymerization of methyl methacrylate on inorganic fillers initiated by surface S-methyl-N,N-diethylthiocarbamate groups. Polymer Science USSR, 1987, 29, 657-662. | 0.2 | 0 |
| 69 | Synthesis and Chemical Regularity in Phosphazene Copolymers. , 0, , 377-410. | | 0 |
| 70 | Microneedles for Intradermal Vaccination: Immunopotential and Formulation Aspects. , 2013, , 217-232. | | 0 |