

Jonathan K Pokorski

List of Publications by Year in descending order

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78
papers

3,391
citations

159585

30
h-index

149698

56
g-index

79
all docs

79
docs citations

79
times ranked

5121
citing authors

#	ARTICLE	IF	CITATIONS
1	COVID-19 vaccine development and a potential nanomaterial path forward. <i>Nature Nanotechnology</i> , 2020, 15, 646-655.	31.5	501
2	3D Printing Biocompatible Polyurethane/Poly(lactic acid)/Graphene Oxide Nanocomposites: Anisotropic Properties. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 4015-4023.	8.0	314
3	The Art of Engineering Viral Nanoparticles. <i>Molecular Pharmaceutics</i> , 2011, 8, 29-43.	4.6	233
4	Functional Virus-Based Polymer-Protein Nanoparticles by Atom Transfer Radical Polymerization. <i>Journal of the American Chemical Society</i> , 2011, 133, 9242-9245.	13.7	173
5	Built-In Active Microneedle Patch with Enhanced Autonomous Drug Delivery. <i>Advanced Materials</i> , 2020, 32, e1905740.	21.0	160
6	Introduction of a Triazole Amino Acid into a Peptoid Oligomer Induces Turn Formation in Aqueous Solution. <i>Organic Letters</i> , 2007, 9, 2381-2383.	4.6	93
7	Cell Targeting with Hybrid Q ¹² Virus-Like Particles Displaying Epidermal Growth Factor. <i>ChemBioChem</i> , 2011, 12, 2441-2447.	2.6	89
8	Stealth filaments: Polymer chain length and conformation affect the in vivo fate of PEGylated potato virus X. <i>Acta Biomaterialia</i> , 2015, 19, 166-179.	8.3	79
9	(S,S)-trans-Cyclopentane-Constrained Peptide Nucleic Acids. A General Backbone Modification that Improves Binding Affinity and Sequence Specificity. <i>Journal of the American Chemical Society</i> , 2004, 126, 15067-15073.	13.7	75
10	Polymer Structure and Conformation Alter the Antigenicity of Virus-like Particle-Polymer Conjugates. <i>Journal of the American Chemical Society</i> , 2017, 139, 3312-3315.	13.7	70
11	Integrating plant molecular farming and materials research for next-generation vaccines. <i>Nature Reviews Materials</i> , 2022, 7, 372-388.	48.7	65
12	Surface Modification of Melt Extruded Poly(ϵ -caprolactone) Nanofibers: Toward a New Scalable Biomaterial Scaffold. <i>ACS Macro Letters</i> , 2014, 3, 585-589.	4.8	61
13	Processing and surface modification of polymer nanofibers for biological scaffolds: a review. <i>Journal of Materials Chemistry B</i> , 2016, 4, 5958-5974.	5.8	61
14	Protein ROMP: Aqueous Graft-from Ring-Opening Metathesis Polymerization. <i>ACS Macro Letters</i> , 2015, 4, 969-973.	4.8	60
15	Slow-Release Formulation of Cowpea Mosaic Virus for In Situ Vaccine Delivery to Treat Ovarian Cancer. <i>Advanced Science</i> , 2018, 5, 1700991.	11.2	54
16	Proteins as substrates for controlled radical polymerization. <i>Polymer Chemistry</i> , 2014, 5, 1545-1558.	3.9	53
17	Enhanced Oligonucleotide Binding to Self-Assembled Nanofibers. <i>Bioconjugate Chemistry</i> , 2005, 16, 501-503.	3.6	51
18	Trivalent Subunit Vaccine Candidates for COVID-19 and Their Delivery Devices. <i>Journal of the American Chemical Society</i> , 2021, 143, 14748-14765.	13.7	48

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19	Biodegradable Viral Nanoparticle/Polymer Implants Prepared via Melt-Processing. ACS Nano, 2017, 11, 8777-8789.	14.6	47
20	DNA as a flame retardant additive for low-density polyethylene. Polymer, 2016, 97, 504-514.	3.8	46
21	Coextruded, Aligned, and Gradient-Modified Poly(μ -caprolactone) Fibers as Platforms for Neural Growth. Biomacromolecules, 2015, 16, 860-867.	5.4	45
22	Poly(lactic acid-co-glycolic acid) devices: Production and applications for sustained protein delivery. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2018, 10, e1516.	6.1	45
23	PEGylated Dendrimers as Drug Delivery Vehicles for the Photosensitizer Silicon Phthalocyanine Pc 4 for Candidal Infections. Biomacromolecules, 2017, 18, 379-385.	5.4	41
24	Erythromycin Modification That Improves Its Acidic Stability while Optimizing It for Local Drug Delivery. Antibiotics, 2017, 6, 11.	3.7	40
25	Graft-to-Protein/Polymer Conjugates Using Polynorbornene Block Copolymers. Biomacromolecules, 2016, 17, 641-648.	5.4	39
26	Bio-inspired synthesis and biological evaluation of a colchicine-related compound library. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 3776-3780.	2.2	35
27	Photodynamic activity of viral nanoparticles conjugated with C60. Chemical Communications, 2012, 48, 9044.	4.1	34
28	In Situ Fabrication of Fiber Reinforced Three-Dimensional Hydrogel Tissue Engineering Scaffolds. ACS Biomaterials Science and Engineering, 2017, 3, 1869-1879.	5.2	32
29	Diffusion and Uptake of Tobacco Mosaic Virus as Therapeutic Carrier in Tumor Tissue: Effect of Nanoparticle Aspect Ratio. Journal of Physical Chemistry B, 2016, 120, 6120-6129.	2.6	31
30	Protein and Bacterial Antifouling Behavior of Melt-Coextruded Nanofiber Mats. ACS Applied Materials & Interfaces, 2016, 8, 8928-8938.	8.0	30
31	Optical and Magnetic Resonance Imaging Using Fluorous Colloidal Nanoparticles. Biomacromolecules, 2017, 18, 103-112.	5.4	29
32	Cyclopropane PNA: observable triplex melting in a PNA constrained with a 3-membered ring. Tetrahedron Letters, 2005, 46, 915-917.	1.4	27
33	Fluorinated polymer photosensitizer conjugates enable improved generation of ROS for anticancer photodynamic therapy. Polymer Chemistry, 2017, 8, 3195-3202.	3.9	27
34	Electrostatic layer-by-layer construction of fibrous TMV biofilms. Nanoscale, 2017, 9, 1580-1590.	5.6	27
35	PEGylation to Improve Protein Stability During Melt Processing. Macromolecular Bioscience, 2015, 15, 1332-1337.	4.1	25
36	Multifunctional and spatially controlled bioconjugation to melt coextruded nanofibers. Polymer Chemistry, 2015, 6, 5683-5692.	3.9	25

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37	Strong, Ductile MOF-Poly(urethane urea) Composites. <i>Chemistry of Materials</i> , 2021, 33, 3164-3171.	6.7	25
38	Cyclopentane-modified PNA improves the sensitivity of nanoparticle-based scanometric DNA detection. <i>Chemical Communications</i> , 2005, , 2101.	4.1	23
39	pH Responsive Doxorubicin Delivery by Fluorous Polymers for Cancer Treatment. <i>Molecular Pharmaceutics</i> , 2018, 15, 2954-2962.	4.6	23
40	Highly Expandable Foam for Lithographic 3D Printing. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 19033-19043.	8.0	23
41	A Single-Dose, Implant-Based, Trivalent Virus-Like Particle Vaccine against Cholesterol Checkpoint Proteins. <i>Advanced Therapeutics</i> , 2021, 4, 2100014.	3.2	23
42	Dissolving Microneedle Delivery of a Prophylactic HPV Vaccine. <i>Biomacromolecules</i> , 2022, 23, 903-912.	5.4	23
43	Peptide Nucleic Acids with a Flexible Secondary Amine in the Backbone Maintain Oligonucleotide Binding Affinity. <i>Organic Letters</i> , 2004, 6, 4699-4702.	4.6	22
44	Polymeric Interventions for Microbial Infections: A Review. <i>Molecular Pharmaceutics</i> , 2018, 15, 2910-2921.	4.6	21
45	Optimization of ring-opening metathesis polymerization (ROMP) under physiologically relevant conditions. <i>Polymer Chemistry</i> , 2020, 11, 4492-4499.	3.9	21
46	Cell Engineering with Functional Poly(oxanorbornene) Block Copolymers. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11379-11383.	13.8	21
47	A Scalable Manufacturing Approach to Single Dose Vaccination against HPV. <i>Vaccines</i> , 2021, 9, 66.	4.4	20
48	Exploring Morphological Effects on the Mechanics of Blended Poly(lactic acid)/Poly(μ -caprolactone) Extruded Fibers Fabricated Using Multilayer Coextrusion. <i>Macromolecules</i> , 2020, 53, 5047-5055.	4.8	19
49	Hot melt extrusion: An emerging manufacturing method for slow and sustained protein delivery. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2021, 13, e1712.	6.1	19
50	Cowpea Mosaic Virus Nanoparticle Vaccine Candidates Displaying Peptide Epitopes Can Neutralize the Severe Acute Respiratory Syndrome Coronavirus. <i>ACS Infectious Diseases</i> , 2021, 7, 3096-3110.	3.8	16
51	Molecular Imaging of Tumors Using a Quantitative T1 Mapping Technique via Magnetic Resonance Imaging. <i>Diagnostics</i> , 2015, 5, 318-332.	2.6	15
52	Freeze-Drying To Produce Efficacious CPMV Virus-like Particles. <i>Nano Letters</i> , 2019, 19, 2099-2105.	9.1	14
53	Polymer Chemistry for Haptics, Soft Robotics, and Human-Machine Interfaces. <i>Advanced Functional Materials</i> , 2021, 31, 2008375.	14.9	14
54	Quantitative Molecular Imaging with a Single Gd-Based Contrast Agent Reveals Specific Tumor Binding and Retention in Vivo. <i>Analytical Chemistry</i> , 2017, 89, 5932-5939.	6.5	13

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55	Drawing in poly(μ -caprolactone) fibers: tuning mechanics, fiber dimensions and surface-modification density. <i>Journal of Materials Chemistry B</i> , 2017, 5, 4499-4506.	5.8	13
56	Structural characterization of protein-polymer conjugates for biomedical applications with small-angle scattering. <i>Current Opinion in Colloid and Interface Science</i> , 2019, 42, 157-168.	7.4	13
57	Coagulation Bath-Assisted 3D Printing of PEDOT:PSS with High Resolution and Strong Substrate Adhesion for Bioelectronic Devices. <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	13
58	Peptide and protein-based inhibitors of HIV-1 co-receptors. <i>Experimental Biology and Medicine</i> , 2013, 238, 442-449.	2.4	12
59	Biologically Triggered Delivery of EGF from Polymer Fiber Patches. <i>ACS Macro Letters</i> , 2017, 6, 593-597.	4.8	12
60	Design and fabrication of a low-cost pilot-scale melt-processing system. <i>Polymer</i> , 2019, 181, 121802.	3.8	12
61	Bio-Based Flame Retardation of Acrylonitrile-Butadiene-Styrene. <i>ACS Applied Polymer Materials</i> , 2021, 3, 372-388.	4.4	12
62	Milling solid proteins to enhance activity after melt-encapsulation. <i>International Journal of Pharmaceutics</i> , 2017, 533, 254-265.	5.2	11
63	Bioconjugation of Active Ingredients to Plant Viral Nanoparticles Is Enhanced by Preincubation with a Pluronic F127 Polymer Scaffold. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 59618-59632.	8.0	10
64	Polyolefin Microfiber Based Antibacterial Fibrous Membrane by Forced Assembly Coextrusion. <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1600304.	3.6	8
65	Tobacco mosaic virus for the targeted delivery of drugs to cells expressing prostate-specific membrane antigen. <i>RSC Advances</i> , 2021, 11, 20101-20108.	3.6	8
66	Modified Cyclodextrin Microparticles to Improve PMMA Drug Delivery Without Mechanical Loss. <i>Macromolecular Bioscience</i> , 2021, 21, e2000328.	4.1	7
67	Confinement and Composition Effects on the Degradation Profile of Extruded PLA/PCL Nonwoven Fiber Blends. <i>ACS Applied Polymer Materials</i> , 2021, 3, 3878-3890.	4.4	7
68	Design, display and immunogenicity of HIV1 gp120 fragment immunogens on virus-like particles. <i>Vaccine</i> , 2018, 36, 6345-6353.	3.8	6
69	Click-Chemistry for Medicine and Biology. <i>Molecular Pharmaceutics</i> , 2018, 15, 2891-2891.	4.6	5
70	A Single-Dose Q1 ² VLP Vaccine Against S100A9 Protein Reduces Atherosclerosis in a Preclinical Model. <i>Advanced Therapeutics</i> , 0, , 2200092.	3.2	5
71	Cell Engineering with Functional Poly(oxanorbornene) Block Copolymers. <i>Angewandte Chemie</i> , 2020, 132, 11475-11479.	2.0	4
72	[9] Peptide Nucleic Acid Microarrays Made with (S,S)-trans-Cyclopentane-Constrained Peptide Nucleic Acids. <i>Methods in Enzymology</i> , 2006, 410, 189-200.	1.0	3

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73	High-Throughput Manufacturing of Antibacterial Nanofibers by Melt Coextrusion and Post-Processing Surface-Initiated Atom Transfer Radical Polymerization. ACS Applied Polymer Materials, 2022, 4, 260-269.	4.4	3
74	Green nanofillers: Plant virus reinforcement in hydrophilic polymer nanocomposites. Polymer, 2018, 142, 72-79.	3.8	2
75	Combinatorial Synthesis, Screening, and Binding Studies of Highly Functionalized Polyamino-amido Oligomers for Binding to Folded RNA. Journal of Nucleic Acids, 2012, 2012, 1-7.	1.2	1
76	A Bottom-Up Approach Grafts Collagen Fibrils Perpendicularly to Titanium Surfaces. ACS Applied Bio Materials, 2020, 3, 6088-6095.	4.6	1
77	Analysis of Polymer-Biomacromolecule Composites in the Solid-State via Energy Dispersive Spectroscopy-Scanning Electron Microscopy. Microscopy and Microanalysis, 2017, 23, 1386-1387.	0.4	0
78	Recent advancements in single dose slow-release devices for prophylactic vaccines. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 0, , .	6.1	0