Jonathan K Pokorski

List of Publications by Year
in descending order

78 papers	3,391 citations	159525 30 h-index	149623 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. Nature Nanotechnology, 2020, 15, 646-655.	15.6	501
2	3D Printing Biocompatible Polyurethane/Poly(lactic acid)/Graphene Oxide Nanocomposites: Anisotropic Properties. ACS Applied Materials & Interfaces, 2017, 9, 4015-4023.	4.0	314
3	The Art of Engineering Viral Nanoparticles. Molecular Pharmaceutics, 2011, 8, 29-43.	2.3	233
4	Functional Virus-Based Polymerâ€“Protein Nanoparticles by Atom Transfer Radical Polymerization. Journal of the American Chemical Society, 2011, 133, 9242-9245.	6.6	173
5	Builtâ€In Active Microneedle Patch with Enhanced Autonomous Drug Delivery. Advanced Materials, 2020, 32, e1905740.	11.1	160
6	Introduction of a Triazole Amino Acid into a Peptoid Oligomer Induces Turn Formation in Aqueous Solution. Organic Letters, 2007, 9, 2381-2383.	2.4	93
7	Cell Targeting with Hybrid Qβ Virusâ€Like Particles Displaying Epidermal Growth Factor. ChemBioChem, 2011, 12, 2441-2447.	1.3	89
8	Stealth filaments: Polymer chain length and conformation affect the in vivo fate of PEGylated potato virus X. Acta Biomaterialia, 2015, 19, 166-179.	4.1	79
9	(S,S)-trans-Cyclopentane-Constrained Peptide Nucleic Acids. A General Backbone Modification that Improves Binding Affinity and Sequence Specificity. Journal of the American Chemical Society, 2004, 126, 15067-15073.	6.6	75
10	Polymer Structure and Conformation Alter the Antigenicity of Virus-like Particleâ€“Polymer Conjugates. Journal of the American Chemical Society, 2017, 139, 3312-3315.	6.6	70
11	Integrating plant molecular farming and materials research for next-generation vaccines. Nature Reviews Materials, 2022, 7, 372-388.	23.3	65
12	Surface Modification of Melt Extruded Poly(ε-caprolactone) Nanofibers: Toward a New Scalable Biomaterial Scaffold. ACS Macro Letters, 2014, 3, 585-589.	2.3	61
13	Processing and surface modification of polymer nanofibers for biological scaffolds: a review. Journal of Materials Chemistry B, 2016, 4, 5958-5974.	2.9	61
14	Protein ROMP: Aqueous Graft-from Ring-Opening Metathesis Polymerization. ACS Macro Letters, 2015, 4, 969-973.	2.3	60
15	Slowâ€Release Formulation of Cowpea Mosaic Virus for In Situ Vaccine Delivery to Treat Ovarian Cancer. Advanced Science, 2018, 5, 1700991.	5.6	54
16	Proteins as substrates for controlled radical polymerization. Polymer Chemistry, 2014, 5, 1545-1558.	1.9	53
17	Enhanced Oligonucleotide Binding to Self-Assembled Nanofibers. Bioconjugate Chemistry, 2005, 16, 501-503.	1.8	51
18	Trivalent Subunit Vaccine Candidates for COVID-19 and Their Delivery Devices. Journal of the American Chemical Society, 2021, 143, 14748-14765.	6.6	48

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19	Biodegradable Viral Nanoparticle/Polymer Implants Prepared via Melt-Processing. ACS Nano, 2017, 11, 8777-8789.	7.3	47
20	DNA as a flame retardant additive for low-density polyethylene. Polymer, 2016, 97, 504-514.	1.8	46
21	Coextruded, Aligned, and Gradient-Modified Poly(ĩµ-caprolactone) Fibers as Platforms for Neural Growth. Biomacromolecules, 2015, 16, 860-867.	2.6	45
22	Poly(lacticâ€coâ€glycolic acid) devices: Production and applications for sustained protein delivery. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2018, 10, e1516.	3.3	45
23	PEGylated Dendrimers as Drug Delivery Vehicles for the Photosensitizer Silicon Phthalocyanine Pc 4 for Candidal Infections. Biomacromolecules, 2017, 18, 379-385.	2.6	41
24	Erythromycin Modification That Improves Its Acidic Stability while Optimizing It for Local Drug Delivery. Antibiotics, 2017, 6, 11.	1.5	40
25	â€œGraft-toâ€•Protein/Polymer Conjugates Using Polynorbornene Block Copolymers. Biomacromolecules, 2016, 17, 641-648.	2.6	39
26	Bio-inspired synthesis and biological evaluation of a colchicine-related compound library. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 3776-3780.	1.0	35
27	Photodynamic activity of viral nanoparticles conjugated with C60. Chemical Communications, 2012, 48, 9044.	2.2	34
28	In Situ Fabrication of Fiber Reinforced Three-Dimensional Hydrogel Tissue Engineering Scaffolds. ACS Biomaterials Science and Engineering, 2017, 3, 1869-1879.	2.6	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.	1.2	31
30	Protein and Bacterial Antifouling Behavior of Melt-Coextruded Nanofiber Mats. ACS Applied Materials & Interfaces, 2016, 8, 8928-8938.	4.0	30
31	Optical and Magnetic Resonance Imaging Using Fluorous Colloidal Nanoparticles. Biomacromolecules, 2017, 18, 103-112.	2.6	29
32	Cyclopropane PNA: observable triplex melting in a PNA constrained with a 3-membered ring. Tetrahedron Letters, 2005, 46, 915-917.	0.7	27
33	Fluorinated polymerâ€“photosensitizer conjugates enable improved generation of ROS for anticancer photodynamic therapy. Polymer Chemistry, 2017, 8, 3195-3202.	1.9	27
34	Electrostatic layer-by-layer construction of fibrous TMV biofilms. Nanoscale, 2017, 9, 1580-1590.	2.8	27
35	PEGylation to Improve Protein Stability During Melt Processing. Macromolecular Bioscience, 2015, 15, 1332-1337.	2.1	25
36	Multifunctional and spatially controlled bioconjugation to melt coextruded nanofibers. Polymer Chemistry, 2015, 6, 5683-5692.	1.9	25

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37	Strong, Ductile MOFâ€“Poly(urethane urea) Composites. Chemistry of Materials, 2021, 33, 3164-3171.	3.2	25
38	Cyclopentane-modified PNA improves the sensitivity of nanoparticle-based scanometric DNA detection. Chemical Communications, 2005, , 2101.	2.2	23
39	pH Responsive Doxorubicin Delivery by Fluorous Polymers for Cancer Treatment. Molecular Pharmaceutics, 2018, 15, 2954-2962.	2.3	23
40	Highly Expandable Foam for Lithographic 3D Printing. ACS Applied Materials & Interfaces, 2020, 12, 19033-19043.	4.0	23
41	A Singleâ€Dose, Implantâ€Based, Trivalent Virusâ€like Particle Vaccine against â€œCholesterol Checkpointâ€• Proteins. Advanced Therapeutics, 2021, 4, 2100014.	1.6	23
42	Dissolving Microneedle Delivery of a Prophylactic HPV Vaccine. Biomacromolecules, 2022, 23, 903-912.	2.6	23
43	Peptide Nucleic Acids with a Flexible Secondary Amine in the Backbone Maintain Oligonucleotide Binding Affinity. Organic Letters, 2004, 6, 4699-4702.	2.4	22
44	Polymeric Interventions for Microbial Infections: A Review. Molecular Pharmaceutics, 2018, 15, 2910-2921.	2.3	21
45	Optimization of ring-opening metathesis polymerization (ROMP) under physiologically relevant conditions. Polymer Chemistry, 2020, 11, 4492-4499.	1.9	21
46	Cell Engineering with Functional Poly(oxanorbornene) Block Copolymers. Angewandte Chemie - International Edition, 2020, 59, 11379-11383.	7.2	21
47	A Scalable Manufacturing Approach to Single Dose Vaccination against HPV. Vaccines, 2021, 9, 66.	2.1	20
48	Exploring Morphological Effects on the Mechanics of Blended Poly(lactic acid)/Poly(Îµ-caprolactone) Extruded Fibers Fabricated Using Multilayer Coextrusion. Macromolecules, 2020, 53, 5047-5055.	2.2	19
49	Hot melt extrusion: An emerging manufacturing method for slow and sustained protein delivery. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2021, 13, e1712.	3.3	19
50	Cowpea Mosaic Virus Nanoparticle Vaccine Candidates Displaying Peptide Epitopes Can Neutralize the Severe Acute Respiratory Syndrome Coronavirus. ACS Infectious Diseases, 2021, 7, 3096-3110.	1.8	16
51	Molecular Imaging of Tumors Using a Quantitative T1 Mapping Technique via Magnetic Resonance Imaging. Diagnostics, 2015, 5, 318-332.	1.3	15
52	Freeze-Drying To Produce Efficacious CPMV Virus-like Particles. Nano Letters, 2019, 19, 2099-2105.	4.5	14
53	Polymer Chemistry for Haptics, Soft Robotics, and Humanâ€“Machine Interfaces. Advanced Functional Materials, 2021, 31, 2008375.	7.8	14
54	Quantitative Molecular Imaging with a Single Gd-Based Contrast Agent Reveals Specific Tumor Binding and Retention in Vivo. Analytical Chemistry, 2017, 89, 5932-5939.	3.2	13

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55	Drawing in poly(Îµ-caprolactone) fibers: tuning mechanics, fiber dimensions and surface-modification density. Journal of Materials Chemistry B, 2017, 5, 4499-4506.	2.9	13
56	Structural characterization of proteinâ€“polymer conjugates for biomedical applications with small-angle scattering. Current Opinion in Colloid and Interface Science, 2019, 42, 157-168.	3.4	13
57	Coagulation Bathâ€Assisted 3D Printing of PEDOT:PSS with High Resolution and Strong Substrate Adhesion for Bioelectronic Devices. Advanced Materials Technologies, 2022, 7, .	3.0	13
58	Peptide and protein-based inhibitors of HIV-1 co-receptors. Experimental Biology and Medicine, 2013, 238, 442-449.	1.1	12
59	Biologically Triggered Delivery of EGF from Polymer Fiber Patches. ACS Macro Letters, 2017, 6, 593-597.	2.3	12
60	Design and fabrication of a low-cost pilot-scale melt-processing system. Polymer, 2019, 181, 121802.	1.8	12
61	Bio-Based Flame Retardation of Acrylonitrileâ€“Butadieneâ€“Styrene. ACS Applied Polymer Materials, 2021, 3, 372-388.	2.0	12
62	Milling solid proteins to enhance activity after melt-encapsulation. International Journal of Pharmaceutics, 2017, 533, 254-265.	2.6	11
63	Bioconjugation of Active Ingredients to Plant Viral Nanoparticles Is Enhanced by Preincubation with a Pluronic F127 Polymer Scaffold. ACS Applied Materials & Interfaces, 2021, 13, 59618-59632.	4.0	10
64	Polyolefin Microfiber Based Antibacterial Fibrous Membrane by Forced Assembly Coextrusion. Macromolecular Materials and Engineering, 2017, 302, 1600304.	1.7	8
65	Tobacco mosaic virus for the targeted delivery of drugs to cells expressing prostate-specific membrane antigen. RSC Advances, 2021, 11, 20101-20108.	1.7	8
66	Modified Cyclodextrin Microparticles to Improve PMMA Drug Delivery Without Mechanical Loss. Macromolecular Bioscience, 2021, 21, e2000328.	2.1	7
67	Confinement and Composition Effects on the Degradation Profile of Extruded PLA/PCL Nonwoven Fiber Blends. ACS Applied Polymer Materials, 2021, 3, 3878-3890.	2.0	7
68	Design, display and immunogenicity of HIV1 gp120 fragment immunogens on virus-like particles. Vaccine, 2018, 36, 6345-6353.	1.7	6
69	â€œClickâ€•Chemistry for Medicine and Biology. Molecular Pharmaceutics, 2018, 15, 2891-2891.	2.3	5
70	A Singleâ€Đose QÎ² VLP Vaccine Against S100A9 Protein Reduces Atherosclerosis in a Preclinical Model. Advanced Therapeutics, 0, , 2200092.	1.6	5
71	Cell Engineering with Functional Poly(oxanorbornene) Block Copolymers. Angewandte Chemie, 2020, 132, 11475-11479.	1.6	4
72	[9] Peptide Nucleic Acid Microarrays Made with (S,S)â€transâ€Cyclopentaneâ€Constrained Peptide Nucleic Acids. Methods in Enzymology, 2006, 410, 189-200.	0.4	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.	2.0	3
74	Green nanofillers: Plant virus reinforcement in hydrophilic polymer nanocomposites. Polymer, 2018, 142, 72-79.	1.8	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.	0.8	1
76	A Bottom-Up Approach Grafts Collagen Fibrils Perpendicularly to Titanium Surfaces. ACS Applied Bio Materials, 2020, 3, 6088-6095.	2.3	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.	0.2	0
78	Recent advancements in single dose slowâ€•release devices for prophylactic vaccines. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 0, , .	3.3	0