

Jan KuÅka

List of Publications by Year in descending order

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66
papers

1,631
citations

257450

24
h-index

315739

38
g-index

72
all docs

72
docs citations

72
times ranked

2405
citing authors

#	ARTICLE	IF	CITATIONS
1	SHARP hydrogel for the treatment of inflammatory bowel disease. <i>International Journal of Pharmaceutics</i> , 2022, 613, 121392.	5.2	8
2	pH-responsive polymersome-mediated delivery of doxorubicin into tumor sites enhances the therapeutic efficacy and reduces cardiotoxic effects. <i>Journal of Controlled Release</i> , 2021, 332, 529-538.	9.9	32
3	Enhanced Antitumor Efficacy through an α -AND gate-Responsive Oxygen-Species-Dependent pH-Responsive Nanomedicine Approach. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100304.	7.6	9
4	Biocompatible polypeptide nanogel: Effect of surfactants on nanogelation in inverse miniemulsion, in vivo biodistribution and blood clearance evaluation. <i>Materials Science and Engineering C</i> , 2021, 126, 111865.	7.3	5
5	Thiolated poly(2-hydroxyethyl methacrylate) hydrogels as a degradable biocompatible scaffold for tissue engineering. <i>Materials Science and Engineering C</i> , 2021, 131, 112500.	7.3	8
6	Highly colloidally stable trimodal 125I-radiolabeled PEG-neridronate-coated upconversion/magnetic bioimaging nanoprobe. <i>Scientific Reports</i> , 2020, 10, 20016.	3.3	12
7	Surface Design of Antifouling Vascular Constructs Bearing Biofunctional Peptides for Tissue Regeneration Applications. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6800.	4.1	12
8	Chelating Polymers for Hereditary Hemochromatosis Treatment. <i>Macromolecular Bioscience</i> , 2020, 20, 2000254.	4.1	5
9	Reactive Oxygen Species (ROS)-Responsive Polymersomes with Site-Specific Chemotherapeutic Delivery into Tumors via Spacer Design Chemistry. <i>Biomacromolecules</i> , 2020, 21, 1437-1449.	5.4	29
10	Iodinated Choline Transport-Targeted Tracers. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 15960-15978.	6.4	3
11	Synthesis and modification of uniform PEG-neridronate-modified magnetic nanoparticles determines prolonged blood circulation and biodistribution in a mouse preclinical model. <i>Scientific Reports</i> , 2019, 9, 10765.	3.3	69
12	Biopolymer strategy for the treatment of Wilson's disease. <i>Journal of Controlled Release</i> , 2018, 273, 131-138.	9.9	12
13	In vitro evaluation of the monoclonal antibody 64Cu-IgG M75 against human carbonic anhydrase IX and its in vivo imaging. <i>Applied Radiation and Isotopes</i> , 2018, 133, 9-13.	1.5	12
14	Impact of Bioactive Peptide Motifs on Molecular Structure, Charging, and Nonfouling Properties of Poly(ethylene oxide) Brushes. <i>Langmuir</i> , 2018, 34, 6010-6020.	3.5	9
15	Poly(ethylene oxide monomethyl ether)- <i>block</i> -poly(propylene succinate) Nanoparticles: Synthesis and Characterization, Enzymatic and Cellular Degradation, Micellar Solubilization of Paclitaxel, and in Vitro and in Vivo Evaluation. <i>Biomacromolecules</i> , 2018, 19, 2443-2458.	5.4	11
16	Chondrogenic potential of macroporous biodegradable cryogels based on synthetic poly(α -amino) Tj ETQq0 0 0 rgBTj/Overlock 10 Tf 50		
17	Extremely rapid isotropic irradiation of nanoparticles with ions generated in situ by a nuclear reaction. <i>Nature Communications</i> , 2018, 9, 4467.	12.8	18
18	Polyelectrolyte pH-Responsive Protein-Containing Nanoparticles: The Physicochemical Supramolecular Approach. <i>Langmuir</i> , 2017, 33, 764-772.	3.5	13

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19	The effect of ionizing radiation on biocompatible polymers: From sterilization to radiolysis and hydrogel formation. <i>Polymer Degradation and Stability</i> , 2017, 137, 1-10.	5.8	25
20	A simple neridronate-based surface coating strategy for upconversion nanoparticles: highly colloidal stable ¹²⁵ I-radiolabeled NaYF ₄ :Yb ³⁺ /Er ³⁺ @PEG nanoparticles for multimodal <i>in vivo</i> tissue imaging. <i>Nanoscale</i> , 2017, 9, 16680-16688.	5.6	63
21	Thermoresponsive ¹²⁵ I-glucan-based polymers for bimodal immunoradiotherapy – Are they able to promote the immune system?. <i>Journal of Controlled Release</i> , 2017, 268, 78-91.	9.9	12
22	Poly(2-ethyl-2-oxazoline) conjugates with doxorubicin for cancer therapy: <i>In vitro</i> and <i>in vivo</i> evaluation and direct comparison to poly[N-(2-hydroxypropyl)methacrylamide] analogues. <i>Biomaterials</i> , 2017, 146, 1-12.	11.4	84
23	Modified glycogen as construction material for functional biomimetic microfibers. <i>Carbohydrate Polymers</i> , 2016, 152, 271-279.	10.2	10
24	RGDS- and SIKVAVS-Modified Superporous Poly(2-hydroxyethyl methacrylate) Scaffolds for Tissue Engineering Applications. <i>Macromolecular Bioscience</i> , 2016, 16, 1621-1631.	4.1	25
25	RGDS- and TAT-Conjugated Upconversion of NaYF ₄ :Yb ³⁺ /Er ³⁺ &SiO ₂ Nanoparticles: <i>In Vitro</i> Human Epithelioid Cervix Carcinoma Cellular Uptake, Imaging, and Targeting. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 20422-20431.	8.0	36
26	Thermoresponsive Polymers for Nuclear Medicine: Which Polymer Is the Best?. <i>Langmuir</i> , 2016, 32, 6115-6122.	3.5	40
27	Seven Years of Radionuclide Laboratory at IMC – Important Achievements. <i>Physiological Research</i> , 2016, 65, S191-S201.	0.9	0
28	Thermoresponsive polymer system based on poly(N-vinylcaprolactam) intended for local radiotherapy applications. <i>Applied Radiation and Isotopes</i> , 2015, 98, 7-12.	1.5	9
29	Toward Structured Macroporous Hydrogel Composites: Electron Beam-Initiated Polymerization of Layered Cryogels. <i>Biomacromolecules</i> , 2015, 16, 1146-1156.	5.4	6
30	Optimized protocol for the radioiodination of hydrazone-type polymer drug delivery systems. <i>Applied Radiation and Isotopes</i> , 2015, 95, 129-134.	1.5	5
31	Nano-Colloid Printing of Functionalized PLA-b-PEO Copolymers: Tailoring the Surface Pattern of Adhesive Motif and its Effect on Cell Attachment. <i>Physiological Research</i> , 2015, 64, S61-S73.	0.9	2
32	Poly(glycidyl methacrylate)/silver nanocomposite microspheres as a radioiodine scavenger: Electrophoretic characterisation of carboxyl- and amine-modified particles. <i>Journal of Colloid and Interface Science</i> , 2014, 421, 146-153.	9.4	13
33	Chelating polymeric beads as potential therapeutics for Wilson’s disease. <i>European Journal of Pharmaceutical Sciences</i> , 2014, 62, 1-7.	4.0	9
34	Self-association of bee propolis: effects on pharmaceutical applications. <i>Journal of Pharmaceutical Investigation</i> , 2014, 44, 15-22.	5.3	3
35	Fluorescent Nanodiamonds Embedded in Biocompatible Translucent Shells. <i>Small</i> , 2014, 10, 1106-1115.	10.0	88
36	Fluorescent Nanodiamonds with Bioorthogonally Reactive Protein-Resistant Polymeric Coatings. <i>ChemPlusChem</i> , 2014, 79, 21-24.	2.8	53

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37	Silver-coated monolithic columns for separation in radiopharmaceutical applications. <i>Journal of Separation Science</i> , 2014, 37, 798-802.	2.5	27
38	Poly(ethylene oxide) brushes prepared by the "grafting to" method as a platform for the assessment of cell receptor-ligand binding. <i>European Polymer Journal</i> , 2014, 58, 11-22.	5.4	8
39	Multistage-targeted pH-responsive polymer conjugate of Auger electron emitter: Optimized design and in vivo activity. <i>European Journal of Pharmaceutical Sciences</i> , 2014, 63, 216-225.	4.0	11
40	PEG-Modified Macroporous Poly(Glycidyl Methacrylate) and Poly(2-Hydroxyethyl Methacrylate) Microspheres to Reduce Non-Specific Protein Adsorption. <i>Macromolecular Bioscience</i> , 2013, 13, 503-511.	4.1	19
41	Chelating polymeric particles intended for the therapy of Wilson's disease. <i>Reactive and Functional Polymers</i> , 2013, 73, 1426-1431.	4.1	8
42	Boosting nanodiamond fluorescence: towards development of brighter probes. <i>Nanoscale</i> , 2013, 5, 3208.	5.6	107
43	Glycogen as a Biodegradable Construction Nanomaterial for in vivo Use. <i>Macromolecular Bioscience</i> , 2012, 12, 1731-1738.	4.1	25
44	Self-Assembled Polymeric Chelate Nanoparticles as Potential Theranostic Agents. <i>ChemPhysChem</i> , 2012, 13, 4244-4250.	2.1	4
45	"Click & Seed" Approach to the Biomimetic Modification of Material Surfaces. <i>Macromolecular Bioscience</i> , 2012, 12, 1232-1242.	4.1	42
46	Thermoresponsive Nanoparticles Based on Poly(2-Alkyl-2-Oxazolines) and Pluronic F127. <i>Macromolecular Rapid Communications</i> , 2012, 33, 1683-1689.	3.9	19
47	Luminescence of Nanodiamond Driven by Atomic Functionalization: Towards Novel Detection Principles. <i>Advanced Functional Materials</i> , 2012, 22, 812-819.	14.9	131
48	Ellipticine-Aimed Polymer-Conjugated Auger Electron Emitter: Multistage Organelle Targeting Approach. <i>Bioconjugate Chemistry</i> , 2011, 22, 1194-1201.	3.6	15
49	Lutetium-177 and iodine-131 loaded chelating polymer microparticles intended for radioembolization of liver malignancies. <i>Reactive and Functional Polymers</i> , 2011, 71, 1155-1159.	4.1	8
50	Thermoresponsive polymeric radionuclide delivery system - An injectable brachytherapy. <i>European Journal of Pharmaceutical Sciences</i> , 2011, 42, 484-488.	4.0	30
51	Luminescence properties of engineered nitrogen vacancy centers in a close surface proximity. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011, 208, 2051-2056.	1.8	38
52	Magnetic poly(<i>N</i> -propargylacrylamide) microspheres: Preparation by precipitation polymerization and use in model click reactions. <i>Journal of Polymer Science Part A</i> , 2011, 49, 4820-4829.	2.3	24
53	On the mechanism of charge transfer between neutral and negatively charged nitrogen-vacancy color centers in diamond. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1282, 103.	0.1	0
54	Thermoresponsive micelles for radionuclide delivery. <i>Journal of Controlled Release</i> , 2010, 148, e60-e62.	9.9	9

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55	Polyoxazoline Thermoresponsive Micelles as Radionuclide Delivery Systems. <i>Macromolecular Bioscience</i> , 2010, 10, 916-924.	4.1	88
56	Biodistribution of a radiolabelled thermoresponsive polymer in mice. <i>Applied Radiation and Isotopes</i> , 2010, 68, 1073-1078.	1.5	16
57	New coupling strategy for radionuclide labeling of synthetic polymers. <i>Applied Radiation and Isotopes</i> , 2010, 68, 334-339.	1.5	5
58	Novel polymer vectors of ⁶⁴ Cu. <i>Radiochimica Acta</i> , 2009, 97, 747-752.	1.2	4
59	Thermoresponsive, Hydrolytically Degradable Polymer Micelles Intended for Radionuclide Delivery. <i>Macromolecular Bioscience</i> , 2009, 9, 1016-1027.	4.1	45
60	New binary thermoresponsive polymeric system for local chemoradiotherapy. <i>Journal of Applied Polymer Science</i> , 2009, 111, 2220-2228.	2.6	16
61	New bioerodable thermoresponsive polymers for possible radiotherapeutic applications. <i>Journal of Controlled Release</i> , 2007, 119, 25-33.	9.9	50
62	Phosphotriesterase modified by poly[N-(2-hydroxypropyl)methacrylamide]. <i>Toxicology</i> , 2007, 233, 235.	4.2	4
63	Astination of nanoparticles containing silver as possible carriers of ²¹¹ At. <i>Applied Radiation and Isotopes</i> , 2006, 64, 201-206.	1.5	41
64	Hydroxybisphosphonate-containing polymeric drug-delivery systems designed for targeting into bone tissue. <i>Journal of Applied Polymer Science</i> , 2006, 101, 3192-3201.	2.6	35
65	Thermoresponsive polymers as promising new materials for local radiotherapy. <i>Applied Radiation and Isotopes</i> , 2005, 63, 423-431.	1.5	39
66	Stimuli-responsive polypeptide nanogels for trypsin inhibition. <i>Beilstein Journal of Nanotechnology</i> , 0, 13, 538-548.	2.8	1