Jan KuÄka

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/10175936/publications.pdf

Version: 2024-02-01

66	1,631	257450	315739
papers	citations	24 h-index	38 g-index

72	72	72	2405
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Luminescence of Nanodiamond Driven by Atomic Functionalization: Towards Novel Detection Principles. Advanced Functional Materials, 2012, 22, 812-819.	14.9	131
2	Boosting nanodiamond fluorescence: towards development of brighter probes. Nanoscale, 2013, 5, 3208.	5.6	107
3	Polyoxazoline Thermoresponsive Micelles as Radionuclide Delivery Systems. Macromolecular Bioscience, 2010, 10, 916-924.	4.1	88
4	Fluorescent Nanodiamonds Embedded in Biocompatible Translucent Shells. Small, 2014, 10, 1106-1115.	10.0	88
5	Poly(2-ethyl-2-oxazoline) conjugates with doxorubicin for cancer therapy: InÂvitro and inÂvivo evaluation and direct comparison to poly[N-(2-hydroxypropyl)methacrylamide] analogues. Biomaterials, 2017, 146, 1-12.	11.4	84
6	Synthesis and modification of uniform PEG-neridronate-modified magnetic nanoparticles determines prolonged blood circulation and biodistribution in a mouse preclinical model. Scientific Reports, 2019, 9, 10765.	3.3	69
7	A simple neridronate-based surface coating strategy for upconversion nanoparticles: highly colloidally stable¹²⁵I-radiolabeled NaYF₄:Yb³⁺/Er³⁺@PEG nanoparticles for multimodalin vivotissue imaging. Nanoscale, 2017, 9, 16680-16688.	5.6	63
8	Fluorescent Nanodiamonds with Bioorthogonally Reactive Proteinâ€Resistant Polymeric Coatings. ChemPlusChem, 2014, 79, 21-24.	2.8	53
9	New bioerodable thermoresponsive polymers for possible radiotherapeutic applications. Journal of Controlled Release, 2007, 119, 25-33.	9.9	50
10	Thermoresponsive, Hydrolytically Degradable Polymer Micelles Intended for Radionuclide Delivery. Macromolecular Bioscience, 2009, 9, 1016-1027.	4.1	45
11	â€œClick & Seedâ€•Approach to the Biomimetic Modification of Material Surfaces. Macromolecular Bioscience, 2012, 12, 1232-1242.	4.1	42
12	Astatination of nanoparticles containing silver as possible carriers of 211At. Applied Radiation and Isotopes, 2006, 64, 201-206.	1.5	41
13	Thermoresponsive Polymers for Nuclear Medicine: Which Polymer Is the Best?. Langmuir, 2016, 32, 6115-6122.	3.5	40
14	Thermoresponsive polymers as promising new materials for local radiotherapy. Applied Radiation and Isotopes, 2005, 63, 423-431.	1.5	39
15	Luminescence properties of engineered nitrogen vacancy centers in a close surface proximity. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 2051-2056.	1.8	38
16	RGDS- and TAT-Conjugated Upconversion of NaYF₄:Yb³⁺/Er³⁺&SiO₂ Nanoparticles: In Vitro Human Epithelioid Cervix Carcinoma Cellular Uptake, Imaging, and Targeting. ACS Applied Materials & Interfaces, 2016, 8, 20422-20431.	8.0	36
17	Hydroxybisphosphonate-containing polymeric drug-delivery systems designed for targeting into bone tissue. Journal of Applied Polymer Science, 2006, 101, 3192-3201.	2.6	35
18	pH-responsive polymersome-mediated delivery of doxorubicin into tumor sites enhances the therapeutic efficacy and reduces cardiotoxic effects. Journal of Controlled Release, 2021, 332, 529-538.	9.9	32

#	Article	IF	Citations
19	Thermoresponsive polymeric radionuclide delivery systemâ€"An injectable brachytherapy. European Journal of Pharmaceutical Sciences, 2011, 42, 484-488.	4.0	30
20	Reactive Oxygen Species (ROS)-Responsive Polymersomes with Site-Specific Chemotherapeutic Delivery into Tumors via Spacer Design Chemistry. Biomacromolecules, 2020, 21, 1437-1449.	5.4	29
21	Silverâ€coated monolithic columns for separation in radiopharmaceutical applications. Journal of Separation Science, 2014, 37, 798-802.	2.5	27
22	Glycogen as a Biodegradable Construction Nanomaterial for in vivo Use. Macromolecular Bioscience, 2012, 12, 1731-1738.	4.1	25
23	RGDS- and SIKVAVS-Modified Superporous Poly(2-hydroxyethyl methacrylate) Scaffolds for Tissue Engineering Applications. Macromolecular Bioscience, 2016, 16, 1621-1631.	4.1	25
24	The effect of ionizing radiation on biocompatible polymers: From sterilization to radiolysis and hydrogel formation. Polymer Degradation and Stability, 2017, 137, 1-10.	5.8	25
25	Magnetic poly(Nâ€propargylacrylamide) microspheres: Preparation by precipitation polymerization and use in model click reactions. Journal of Polymer Science Part A, 2011, 49, 4820-4829.	2.3	24
26	Thermoresponsive Nanoparticles Based on Poly(2â€alkylâ€2â€Oxazolines) and Pluronic F127. Macromolecular Rapid Communications, 2012, 33, 1683-1689.	3.9	19
27	PEGâ€Modified Macroporous Poly(Glycidyl Methacrylate) and Poly(2â€Hydroxyethyl Methacrylate) Microspheres to Reduce Nonâ€Specific Protein Adsorption. Macromolecular Bioscience, 2013, 13, 503-511.	4.1	19
28	Extremely rapid isotropic irradiation of nanoparticles with ions generated in situ by a nuclear reaction. Nature Communications, 2018, 9, 4467.	12.8	18
29	New binary thermoresponsive polymeric system for local chemoradiotherapy. Journal of Applied Polymer Science, 2009, 111, 2220-2228.	2.6	16
30	Biodistribution of a radiolabelled thermoresponsive polymer in mice. Applied Radiation and Isotopes, 2010, 68, 1073-1078.	1.5	16
31	Ellipticine-Aimed Polymer-Conjugated Auger Electron Emitter: Multistage Organelle Targeting Approach. Bioconjugate Chemistry, 2011, 22, 1194-1201.	3.6	15
32	Poly(glycidyl methacrylate)/silver nanocomposite microspheres as a radioiodine scavenger: Electrophoretic characterisation of carboxyl- and amine-modified particles. Journal of Colloid and Interface Science, 2014, 421, 146-153.	9.4	13
33	Polyelectrolyte pH-Responsive Protein-Containing Nanoparticles: The Physicochemical Supramolecular Approach. Langmuir, 2017, 33, 764-772.	3.5	13
34	Thermoresponsive Î²-glucan-based polymers for bimodal immunoradiotherapy â€" Are they able to promote the immune system?. Journal of Controlled Release, 2017, 268, 78-91.	9.9	12
35	Biopolymer strategy for the treatment of Wilson's disease. Journal of Controlled Release, 2018, 273, 131-138.	9.9	12
36	In vitro evaluation of the monoclonal antibody 64Cu-IgG M75 against human carbonic anhydrase IX and its in vivo imaging. Applied Radiation and Isotopes, 2018, 133, 9-13.	1.5	12

#	Article	IF	Citations
37	Highly colloidally stable trimodal 125I-radiolabeled PEG-neridronate-coated upconversion/magnetic bioimaging nanoprobes. Scientific Reports, 2020, 10, 20016.	3.3	12
38	Surface Design of Antifouling Vascular Constructs Bearing Biofunctional Peptides for Tissue Regeneration Applications. International Journal of Molecular Sciences, 2020, 21, 6800.	4.1	12
39	Multistage-targeted pH-responsive polymer conjugate of Auger electron emitter: Optimized design and in vivo activity. European Journal of Pharmaceutical Sciences, 2014, 63, 216-225.	4.0	11
40	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. Biomacromolecules, 2018, 19, 2443-2458.	5.4	11
41	Modified glycogen as construction material for functional biomimetic microfibers. Carbohydrate Polymers, 2016, 152, 271-279.	10.2	10
42	Thermoresponsive micelles for radionuclide delivery. Journal of Controlled Release, 2010, 148, e60-e62.	9.9	9
43	Chelating polymeric beads as potential therapeutics for Wilsonâ€™s disease. European Journal of Pharmaceutical Sciences, 2014, 62, 1-7.	4.0	9
44	Thermoresponsive polymer system based on poly(N-vinylcaprolactam) intended for local radiotherapy applications. Applied Radiation and Isotopes, 2015, 98, 7-12.	1.5	9
45	Impact of Bioactive Peptide Motifs on Molecular Structure, Charging, and Nonfouling Properties of Poly(ethylene oxide) Brushes. Langmuir, 2018, 34, 6010-6020.	3.5	9
46	Chondrogenic potential of macroporous biodegradable cryogels based on synthetic poly(Î±-amino) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.7	9
47	Enhanced Antitumor Efficacy through an â€œAND gateâ€•Reactive Oxygenâ€Speciesâ€Dependent pHâ€Responsive Nanomedicine Approach. Advanced Healthcare Materials, 2021, 10, e2100304.	7.6	9
48	Lutetium-177 and iodine-131 loaded chelating polymer microparticles intended for radioembolization of liver malignancies. Reactive and Functional Polymers, 2011, 71, 1155-1159.	4.1	8
49	Chelating polymeric particles intended for the therapy of Wilsonâ€™s disease. Reactive and Functional Polymers, 2013, 73, 1426-1431.	4.1	8
50	Poly(ethylene oxide) brushes prepared by the â€œgrafting toâ€•method as a platform for the assessment of cell receptorâ€“ligand binding. European Polymer Journal, 2014, 58, 11-22.	5.4	8
51	Thiolated poly(2-hydroxyethyl methacrylate) hydrogels as a degradable biocompatible scaffold for tissue engineering. Materials Science and Engineering C, 2021, 131, 112500.	7.3	8
52	SHARP hydrogel for the treatment of inflammatory bowel disease. International Journal of Pharmaceutics, 2022, 613, 121392.	5.2	8
53	Toward Structured Macroporous Hydrogel Composites: Electron Beam-Initiated Polymerization of Layered Cryogels. Biomacromolecules, 2015, 16, 1146-1156.	5.4	6
54	New coupling strategy for radionuclide labeling of synthetic polymers. Applied Radiation and Isotopes, 2010, 68, 334-339.	1.5	5

#	Article	IF	Citations
55	Optimized protocol for the radioiodination of hydrazone-type polymer drug delivery systems. Applied Radiation and Isotopes, 2015, 95, 129-134.	1.5	5
56	ChelatingÂPolymers for Hereditary Hemochromatosis Treatment. Macromolecular Bioscience, 2020, 20, 2000254.	4.1	5
57	Biocompatible polypeptide nanogel: Effect of surfactants on nanogelation in inverse miniemulsion, in vivo biodistribution and blood clearance evaluation. Materials Science and Engineering C, 2021, 126, 111865.	7.3	5
58	Phosphotriesterase modified by poly[N-(2-hydroxypropyl)methacrylamide]. Toxicology, 2007, 233, 235.	4.2	4
59	Novel polymer vectors of 64Cu. Radiochimica Acta, 2009, 97, 747-752.	1.2	4
60	Selfâ€Assembled Polymeric Chelate Nanoparticles as Potential Theranostic Agents. ChemPhysChem, 2012, 13, 4244-4250.	2.1	4
61	Self-association of bee propolis: effects on pharmaceutical applications. Journal of Pharmaceutical Investigation, 2014, 44, 15-22.	5.3	3
62	Iodinated Choline Transport-Targeted Tracers. Journal of Medicinal Chemistry, 2020, 63, 15960-15978.	6.4	3
63	Nano-Colloid Printing of Functionalized PLA-b-PEO Copolymers: Tailoring the Surface Pattern of Adhesive Motif and its Effect on Cell Attachment. Physiological Research, 2015, 64, S61-S73.	0.9	2
64	Stimuli-responsive polypeptide nanogels for trypsin inhibition. Beilstein Journal of Nanotechnology, 0, 13, 538-548.	2.8	1
65	On the mechanism of charge transfer between neutral and negatively charged nitrogen-vacancy color centers in diamond. Materials Research Society Symposia Proceedings, 2011, 1282, 103.	0.1	0
66	Seven Years of Radionuclide Laboratory at IMC â€“ Important Achievements. Physiological Research, 2016, 65, S191-S201.	0.9	0