

Joseph Kost

List of Publications by Year in descending order

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118
papers

7,752
citations

61857

43
h-index

53109

85
g-index

121
all docs

121
docs citations

121
times ranked

7021
citing authors

#	ARTICLE	IF	CITATIONS
1	Responsive polymeric delivery systems. <i>Advanced Drug Delivery Reviews</i> , 2001, 46, 125-148.	6.6	560
2	Pectin-based systems for colon-specific drug delivery via oral route. <i>Biomaterials</i> , 2003, 24, 3333-3343.	5.7	469
3	Ultrasound, liposomes, and drug delivery: principles for using ultrasound to control the release of drugs from liposomes. <i>Chemistry and Physics of Lipids</i> , 2009, 162, 1-16.	1.5	398
4	Low-frequency sonophoresis. <i>Advanced Drug Delivery Reviews</i> , 2004, 56, 589-601.	6.6	349
5	Ultrasound-enhanced polymer degradation and release of incorporated substances.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1989, 86, 7663-7666.	3.3	308
6	Ultrasound triggered release of cisplatin from liposomes in murine tumors. <i>Journal of Controlled Release</i> , 2009, 137, 63-68.	4.8	274
7	Characterization of glucose-sensitive insulin release systems in simulated in vivo conditions. <i>Biomaterials</i> , 2000, 21, 1679-1687.	5.7	242
8	Transdermal monitoring of glucose and other analytes using ultrasound. <i>Nature Medicine</i> , 2000, 6, 347-350.	15.2	237
9	Responsive polymeric delivery systems. <i>Advanced Drug Delivery Reviews</i> , 2012, 64, 327-341.	6.6	234
10	Controlling Liposomal Drug Release with Low Frequency Ultrasound:Â Mechanism and Feasibility. <i>Langmuir</i> , 2007, 23, 4019-4025.	1.6	213
11	Glucose-sensitive membranes containing glucose oxidase: Activity, swelling, and permeability studies. <i>Journal of Biomedical Materials Research Part B</i> , 1985, 19, 1117-1133.	3.0	202
12	Ultrasound mediated transdermal drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2014, 72, 127-143.	6.6	202
13	Ultrasound and transdermal drug delivery. <i>Drug Discovery Today</i> , 2004, 9, 670-676.	3.2	174
14	Regulation of drug release from polymer matrices by oscillating magnetic fields. <i>Journal of Biomedical Materials Research Part B</i> , 1985, 19, 67-83.	3.0	151
15	Magnetically enhanced insulin release in diabetic rats. <i>Journal of Biomedical Materials Research Part B</i> , 1987, 21, 1367-1373.	3.0	148
16	Determination of threshold energy dose for ultrasound-induced transdermal drug transport. <i>Journal of Controlled Release</i> , 2000, 63, 41-52.	4.8	142
17	Effect of ultrasound on transdermal drug delivery to rats and guinea pigs.. <i>Journal of Clinical Investigation</i> , 1989, 83, 2074-2078.	3.9	141
18	Characterization of a polymeric PLGA-injectable implant delivery system for the controlled release of proteins. , 2000, 50, 388-396.		137

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19	Bioadhesive grafted starch copolymers as platforms for peroral drug delivery: a study of theophylline release. <i>Journal of Controlled Release</i> , 2004, 94, 391-399.	4.8	122
20	Low-Frequency Sonophoresis: A Noninvasive Method of Drug Delivery and Diagnostics. <i>Biotechnology Progress</i> , 2000, 16, 488-492.	1.3	114
21	Polyanhydrides for controlled release of bioactive agents. <i>Biomaterials</i> , 1986, 7, 364-371.	5.7	111
22	Synergistic Effect of Low-Frequency Ultrasound and Sodium Lauryl Sulfate on Transdermal Transport. <i>Journal of Pharmaceutical Sciences</i> , 2000, 89, 892-900.	1.6	109
23	Transdermal delivery of heparin and low-molecular weight heparin using low-frequency ultrasound. , 2001, 18, 1151-1156.		98
24	Characterization and antimicrobial activity of silver nanoparticles, biosynthesized using <i>Bacillus</i> species. <i>Applied Surface Science</i> , 2018, 438, 66-73.	3.1	96
25	Smart polymers for responsive drug-delivery systems. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2008, 19, 755-767.	1.9	86
26	Switchable Assembly of Ultra Narrow CdS Nanowires and Nanorods. <i>Journal of the American Chemical Society</i> , 2006, 128, 9294-9295.	6.6	80
27	Synergistic effect of electric field and ultrasound on transdermal transport. <i>Pharmaceutical Research</i> , 1996, 13, 633-638.	1.7	79
28	Combined effect of low-frequency ultrasound and iontophoresis: applications for transdermal heparin delivery. <i>Pharmaceutical Research</i> , 2000, 17, 1151-1154.	1.7	79
29	Dependence of low-frequency sonophoresis on ultrasound parameters; distance of the horn and intensity. <i>International Journal of Pharmaceutics</i> , 2002, 235, 35-42.	2.6	79
30	Hydrogels from Biopolymer Hybrid for Biomedical, Food, and Functional Food Applications. <i>Polymers</i> , 2012, 4, 997-1011.	2.0	78
31	Mechanistic studies of macromolecular drug release from macroporous polymers. I. Experiments and preliminary theory concerning completeness of drug release. <i>Journal of Controlled Release</i> , 1989, 8, 223-236.	4.8	75
32	Mass transport enhancement by ultrasound in non-degradable polymeric controlled release systems. <i>Journal of Controlled Release</i> , 1998, 54, 1-7.	4.8	75
33	Responsive polymer systems for controlled delivery of therapeutics. <i>Trends in Biotechnology</i> , 1992, 10, 127-131.	4.9	73
34	Rapid Onset of Cutaneous Anesthesia with EMLA Cream After Pretreatment with a New Ultrasound-Emitting Device. <i>Anesthesia and Analgesia</i> , 2004, 98, 371-376.	1.1	73
35	Modified pectin-based carrier for gene delivery: Cellular barriers in gene delivery course. <i>Journal of Controlled Release</i> , 2008, 130, 183-191.	4.8	73
36	Pyroelectric, piezoelectric, and photoeffects in hydroxyapatite thin films on silicon. <i>Applied Physics Letters</i> , 2011, 98, 123703.	1.5	70

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37	Resistivity behavior of carbon-black-filled silicone rubber in cyclic loading experiments. <i>Journal of Applied Polymer Science</i> , 1984, 29, 3937-3946.	1.3	69
38	The importance of microjet vs shock wave formation in sonophoresis. <i>Journal of Controlled Release</i> , 2010, 148, 204-211.	4.8	69
39	Analysis of ultrasonically extracted interstitial fluid as a predictor of blood glucose levels. <i>Journal of Applied Physiology</i> , 2000, 89, 961-966.	1.2	62
40	Magnetically controlled release systems: Effect of polymer composition. <i>Journal of Biomedical Materials Research Part B</i> , 1985, 19, 935-940.	3.0	56
41	Quantitative model relating electrical resistance, strain, and time for carbon black loaded silicone rubber. <i>Polymer Engineering and Science</i> , 1994, 34, 1628-1634.	1.5	53
42	Effects of axial stretching on the resistivity of carbon black filled silicone rubber. <i>Polymer Engineering and Science</i> , 1983, 23, 567-571.	1.5	52
43	Transdermal extraction of analytes using low-frequency ultrasound. <i>Pharmaceutical Research</i> , 2000, 17, 466-470.	1.7	50
44	Quaternized starch-based carrier for siRNA delivery: From cellular uptake to gene silencing. <i>Journal of Controlled Release</i> , 2014, 185, 109-120.	4.8	50
45	Chemically-modified polysaccharides for enzymatically-controlled oral drug delivery. <i>Biomaterials</i> , 1990, 11, 695-698.	5.7	49
46	Glucose-sensitive polymeric matrices for controlled drug delivery. <i>Clinical Materials</i> , 1993, 13, 135-142.	0.5	46
47	Delivery of soluble tumor necrosis factor receptor from in-situ forming PLGA implants: in-vivo. <i>Pharmaceutical Research</i> , 2000, 17, 1546-1550.	1.7	44
48	Ultrasound-Assisted Insulin Delivery and Noninvasive Glucose Sensing. <i>Diabetes Technology and Therapeutics</i> , 2002, 4, 489-497.	2.4	44
49	Bubble growth within the skin by rectified diffusion might play a significant role in sonophoresis. <i>Journal of Controlled Release</i> , 2007, 117, 246-255.	4.8	40
50	The nature of ultrasound's synergism during enhanced transdermal transport. <i>Journal of Controlled Release</i> , 2005, 107, 484-494.	4.8	37
51	Experimental approach to elucidate the mechanism of ultrasound-enhanced polymer erosion and release of incorporated substances. <i>Macromolecules</i> , 1992, 25, 123-128.	2.2	36
52	An investigation of the effects of ultrasound on degradable polyanhydride matrices. <i>Macromolecules</i> , 1992, 25, 511-515.	2.2	35
53	Characterization of microencapsulated liposome systems for the controlled delivery of liposome-associated macromolecules. <i>Journal of Controlled Release</i> , 1997, 43, 35-45.	4.8	34
54	Preparation and characterization of bioadhesive grafted starch copolymers as platforms for controlled drug delivery. <i>Journal of Applied Polymer Science</i> , 2002, 86, 1157-1162.	1.3	32

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55	Ultrasound for controlled delivery of therapeutics. <i>Clinical Materials</i> , 1993, 13, 155-161.	0.5	31
56	Enzymatically controlled responsive drug delivery systems. <i>Polymers for Advanced Technologies</i> , 2002, 13, 1006-1018.	1.6	31
57	Modeling ionic hydrogels swelling: Characterization of the non-steady state. <i>Biotechnology and Bioengineering</i> , 2003, 84, 20-28.	1.7	31
58	On-demand release by ultrasound from osmotically swollen hydrophobic matrices. <i>Journal of Controlled Release</i> , 2005, 110, 58-66.	4.8	31
59	Ultrasonically controlled polymeric drug delivery. <i>Makromolekulare Chemie Macromolecular Symposia</i> , 1988, 19, 275-285.	0.6	29
60	Ultrasound targeting of Q-starch/miR-197 complexes for topical treatment of psoriasis. <i>Journal of Controlled Release</i> , 2018, 284, 103-111.	4.8	28
61	A Bioresponsive Membrane for Insulin Delivery. , 1984, , 209-220.		28
62	Structural characterization of starch networks in the solid state by cross-polarization magic-angle-spinning carbon-13 NMR spectroscopy and wide angle x-ray diffraction. <i>Macromolecules</i> , 1992, 25, 6756-6760.	2.2	26
63	LONG-TERM PROTECTION AGAINST THE EFFECTS OF TUMOUR NECROSIS FACTOR BY CONTROLLED DELIVERY OF THE SOLUBLE p55 TNF RECEPTOR. <i>Cytokine</i> , 1996, 8, 482-487.	1.4	23
64	Controlled Release and Magnetically Modulated Systems for Macromolecular Drugs. <i>Annals of the New York Academy of Sciences</i> , 1985, 446, 1-13.	1.8	22
65	Ultrasound induced delivery of peptides. <i>Journal of Controlled Release</i> , 1993, 24, 247-255.	4.8	21
66	Ultrasonically enhanced transdermal drug delivery. Experimental approaches to elucidate the mechanism. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1994, 5, 147-156.	1.9	21
67	Reuse of plastics from solid wastes. <i>Polymer Engineering and Science</i> , 1977, 17, 274-278.	1.5	20
68	Mechanism of Low Profile Behavior in Unsaturated Polyester Systems. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 1978, 6, 217-231.	1.8	20
69	Influence of specially modulated ultrasound on the water desalination process with ion-exchange hollow fibers. <i>Desalination</i> , 1997, 109, 303-313.	4.0	20
70	Synthesis, characterization, and self-assembly with plasmid DNA of a quaternary ammonium derivative of pectic galactan and its fluorescent labeling for bioimaging applications. <i>Carbohydrate Polymers</i> , 2016, 150, 308-318.	5.1	20
71	Calcium responsive bioerodible drug delivery system. <i>Pharmaceutical Research</i> , 1999, 16, 1483-1486.	1.7	19
72	SP-D loaded PLGA nanoparticles as drug delivery system for prevention and treatment of premature infant's lung diseases. <i>International Journal of Pharmaceutics</i> , 2020, 585, 119387.	2.6	19

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73	pH-Responsive Hydrogels: Swelling Model. <i>Advances in Experimental Medicine and Biology</i> , 2004, 553, 29-43.	0.8	17
74	A Review: Controlled Release Systems for Agricultural and Food Applications. <i>ACS Symposium Series</i> , 2008, , 265-281.	0.5	16
75	Tailoring quaternized starch as a non-viral carrier for gene delivery applications. <i>Polymers for Advanced Technologies</i> , 2014, 25, 552-561.	1.6	16
76	Swelling Behavior of Glucose Sensitive Membranes. , 1984, , 193-207.		15
77	Controlled release of bioactive agents. <i>Trends in Biotechnology</i> , 1984, 2, 47-51.	4.9	14
78	Bacteria-Mediated Synthesis of Silver and Silver Chloride Nanoparticles and Their Antimicrobial Activity. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3134.	1.3	14
79	Ultrasound as a potential trigger to terminate the activity of contraceptive delivery implants. <i>Journal of Controlled Release</i> , 1994, 30, 77-81.	4.8	13
80	In Vitro Analysis of Bromine Chemical Burns with Use of Full-Thickness Human Skin. <i>Journal of Burn Care and Research</i> , 1998, 19, 18-24.	1.7	13
81	Tailor-Made Single-Core PLGA Microbubbles as Acoustic Cavitation Enhancers for Therapeutic Applications. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 25748-25758.	4.0	13
82	Enhanced Protein Blotting from PhastGel Media to Membranes by Irradiation of Low-Intensity Ultrasound. <i>Analytical Biochemistry</i> , 1994, 216, 27-32.	1.1	12
83	Harvesting Low Molecular Weight Biomarkers Using Gold Nanoparticles. <i>ACS Nano</i> , 2015, 9, 5750-5759.	7.3	12
84	Electrical properties of glucose-sensitive hydrogels: Swelling and conductivity relationships. , 1998, 41, 65-70.		11
85	Ultrasound Effect on Cancerous versus Non-Cancerous Cells. <i>Ultrasound in Medicine and Biology</i> , 2016, 42, 1560-1567.	0.7	11
86	Combined Ultrasonic and Enzymatic Debridement of Necrotic Eschars in an Animal Model. <i>Journal of Burn Care and Research</i> , 2009, 30, 505-513.	0.2	9
87	Indirect Low-Intensity Ultrasonic Stimulation for Tissue Engineering. <i>Journal of Tissue Engineering</i> , 2010, 1, 973530.	2.3	9
88	A novel approach for noninvasive drug delivery and sensing through the amniotic sac. <i>Journal of Controlled Release</i> , 2014, 183, 105-113.	4.8	9
89	Ultrasound-mediated transgene expression in endogenous stem cells recruited to bone injury sites. <i>Polymers for Advanced Technologies</i> , 2014, 25, 525-531.	1.6	8
90	The synergistic effect of ultrasound and chemical penetration enhancers on chorioamnion mass transport. <i>Journal of Controlled Release</i> , 2015, 200, 35-41.	4.8	8

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91	Cell stiffness predicts cancer cell sensitivity to ultrasound as a selective superficial cancer therapy. <i>Bioengineering and Translational Medicine</i> , 2021, 6, e10226.	3.9	8
92	Amplified CPEs enhancement of chorioamnion membrane mass transport by encapsulation in nano-sized PLGA particles. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017, 117, 292-299.	2.0	7
93	Quaternized Starch-Based Composite Nanoparticles for siRNA Delivery to Tumors. <i>ACS Applied Nano Materials</i> , 2021, 4, 2218-2229.	2.4	6
94	Ultrasonic Modulated Drug Delivery Systems. , 1986, , 387-396.		6
95	Advances in Drug Delivery and Theranostics. <i>Advanced Functional Materials</i> , 2021, 31, 2108838.	7.8	6
96	Ultrasound-Mediated Transdermal Drug Delivery. , 1993, , 91-104.		5
97	Pyroelectric, piezoelectric and photoeffects in hydroxyapatite thin films on silicon. , 2011, , .		5
98	Ultrashort Cell-Penetrating Peptides for Enhanced Sonophoresis-Mediated Transdermal Transport. <i>ACS Applied Bio Materials</i> , 2020, 3, 8395-8401.	2.3	5
99	Keeping those telomeres short! an innovative intratumoral long-term drug delivery system. <i>Journal of Cancer Research and Clinical Oncology</i> , 2015, 141, 23-34.	1.2	4
100	Polymeric carrier-mediated intracellular delivery of phosphatidylinositol-3,4,5-trisphosphate to overcome insulin resistance. <i>Journal of Drug Targeting</i> , 2015, 23, 698-709.	2.1	4
101	Pectic Galactan Polysaccharide-Based Gene Delivery System for Targeting Neuroinflammation. <i>Advanced Functional Materials</i> , 2021, 31, 2100643.	7.8	4
102	Real Time Response Polymeric Delivery Systems. <i>Annals of the New York Academy of Sciences</i> , 1991, 618, 330-334.	1.8	3
103	Fetal Membrane Transport Enhancement Using Ultrasound for Drug Delivery and Noninvasive Detection. <i>Pharmaceutical Research</i> , 2015, 32, 403-413.	1.7	3
104	Low-Frequency Ultrasound Effects on Intracellular Barriers in Nonviral Gene Delivery Processes. <i>Israel Journal of Chemistry</i> , 2013, 53, 829-838.	1.0	2
105	Effects of Surface Coating on Nanoparticle-Protein Adsorption Selectivity. <i>Regenerative Engineering and Translational Medicine</i> , 2018, 4, 62-74.	1.6	2
106	Applications of injectable polymeric implants for protein and DNA delivery. <i>Israel Journal of Chemistry</i> , 2005, 45, 437-444.	1.0	1
107	A pilot study of endoluminal US for stool liquefaction. <i>Gastrointestinal Endoscopy</i> , 2014, 79, 508-513.	0.5	1
108	Characterization of a polymeric PLGA-injectable implant delivery system for the controlled release of proteins. , 2000, 50, 388.		1

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109	Blotting from PhastGel to Membranes by Ultrasound. Methods in Molecular Biology, 2015, 1312, 237-246.	0.4	1
110	Nano/ Microspheres from Natural Polymers. , 2000, , 203-240.		1
111	Blotting from PhastGel to Membranes by Ultrasound. Methods in Molecular Biology, 2009, 536, 173-179.	0.4	1
112	Optical properties of chlorin e6 in living melanoma cells. , 2020, , .		1
113	Poled PVDF-TrFE coatings on quartz microbalance sensors: A new technique for study of proteins in solution. , 2011, , .		0
114	Mo1565 Salvaging Poorly Prepared Colonoscopies Using Endoluminal Ultrasound: a Pilot Study. Gastrointestinal Endoscopy, 2013, 77, AB429-AB430.	0.5	0
115	Sonodynamic effect in A375 melanoma cells with chlorin e6 induced by 20 kHz ultrasound. Journal Physics D: Applied Physics, 2022, 55, 045402.	1.3	0
116	Ultrasound-Mediated Transdermal Drug Delivery. , 2008, , 339-347.		0
117	Drug Delivery Systems. , 2008, , .		0
118	Abstract B50: An innovative technique for preventing telomere elongation and its associated immortalization of cancer cells. , 2015, , .		0