

Horst A Von Recum

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

97
papers

5,304
citations

27
h-index

72
g-index

108
ext. papers

5,811
ext. citations

6
avg, IF

6.11
L-index

#	Paper	IF	Citations
97	Electrospinning: applications in drug delivery and tissue engineering. <i>Biomaterials</i> , 2008 , 29, 1989-2006	15.6	2436
96	Biocompatibility and biofouling of MEMS drug delivery devices. <i>Biomaterials</i> , 2003 , 24, 1959-67	15.6	444
95	Comparative evaluation of the antitumor activity of antiangiogenic proteins delivered by gene transfer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 4605-10	11.5	249
94	Gold nanoparticles as a versatile platform for optimizing physicochemical parameters for targeted drug delivery. <i>Macromolecular Bioscience</i> , 2006 , 6, 506-16	5.5	186
93	Cyclodextrin-based device coatings for affinity-based release of antibiotics. <i>Biomaterials</i> , 2010 , 31, 2335-47	4.76	137
92	Affinity-based drug delivery. <i>Macromolecular Bioscience</i> , 2011 , 11, 321-32	5.5	136
91	Degradation of polydispersed poly(L-lactic acid) to modulate lactic acid release. <i>Biomaterials</i> , 1995 , 16, 441-7	15.6	95
90	Novel thermally reversible hydrogel as detachable cell culture substrate. <i>Journal of Biomedical Materials Research Part B</i> , 1998 , 40, 631-9		87
89	A biodegradable thermoset polymer made by esterification of citric acid and glycerol. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 1467-77	5.4	83
88	Cyclodextrin complexation for affinity-based antibiotic delivery. <i>Macromolecular Bioscience</i> , 2010 , 10, 82-90	5.5	81
87	Endothelial stem cells and precursors for tissue engineering: cell source, differentiation, selection, and application. <i>Tissue Engineering - Part B: Reviews</i> , 2008 , 14, 133-47	7.9	81
86	Supramolecular assembly of cyclodextrin-based nanoparticles on solid surfaces for gene delivery. <i>Langmuir</i> , 2006 , 22, 8478-84	4	71
85	Toward potential supramolecular tissue engineering scaffolds based on guanosine derivatives. <i>Chemical Science</i> , 2012 , 3, 564-572	9.4	68
84	Environmental cues to guide stem cell fate decision for tissue engineering applications. <i>Expert Opinion on Biological Therapy</i> , 2006 , 6, 847-66	5.4	64
83	The role of nanomaterials in translational medicine. <i>ACS Nano</i> , 2011 , 5, 3419-24	16.7	61
82	Antibiotic-releasing mesh coating to reduce prosthetic sepsis: an in vivo study. <i>Journal of Surgical Research</i> , 2010 , 163, 337-43	2.5	58
81	Growth factor release from thermally reversible tissue culture substrates. <i>Journal of Controlled Release</i> , 1998 , 55, 121-30	11.7	51

80	Emerging technologies for long-term antimicrobial device coatings: advantages and limitations. <i>Experimental Biology and Medicine</i> , 2017 , 242, 788-798	3.7	49
79	Retinal pigmented epithelium cultures on thermally responsive polymer porous substrates. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1998 , 9, 1241-53	3.5	44
78	Growth factor and matrix molecules preserve cell function on thermally responsive culture surfaces. <i>Tissue Engineering</i> , 1999 , 5, 251-65		43
77	Experimental studies and modeling of drug release from a tunable affinity-based drug delivery platform. <i>Annals of Biomedical Engineering</i> , 2011 , 39, 2466-75	4.7	41
76	Thermomechanical Properties, Antibiotic Release, and Bioactivity of a Sterilized Cyclodextrin Drug Delivery System. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 2764-2772	7.3	40
75	Maintenance of retinoid metabolism in human retinal pigment epithelium cell culture. <i>Experimental Eye Research</i> , 1999 , 69, 97-107	3.7	36
74	The role of CXCL12 and CCL7 chemokines in immune regulation, embryonic development, and tissue regeneration. <i>Cytokine</i> , 2014 , 69, 277-83	4	35
73	Localized and targeted delivery of NSAIDs for treatment of inflammation: A review. <i>Experimental Biology and Medicine</i> , 2019 , 244, 433-444	3.7	33
72	Enhancing the Mechanical Properties of Guanosine-Based Supramolecular Hydrogels with Guanosine-Containing Polymers. <i>Macromolecules</i> , 2014 , 47, 1810-1818	5.5	33
71	Antibiotic-releasing microspheres prevent mesh infection in vivo. <i>Journal of Surgical Research</i> , 2016 , 206, 41-47	2.5	28
70	Affinity interactions drive post-implantation drug filling, even in the presence of bacterial biofilm. <i>Acta Biomaterialia</i> , 2017 , 57, 95-102	10.8	26
69	An Additive to PMMA Bone Cement Enables Postimplantation Drug Refilling, Broadens Range of Compatible Antibiotics, and Prolongs Antimicrobial Therapy. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1800812	10.1	26
68	Erythromycin Modification That Improves Its Acidic Stability while Optimizing It for Local Drug Delivery. <i>Antibiotics</i> , 2017 , 6,	4.9	26
67	Molecular Imprinting of Cyclodextrin Supramolecular Hydrogels Improves Drug Loading and Delivery. <i>Macromolecular Bioscience</i> , 2019 , 19, e1800246	5.5	26
66	Cytotoxic gold(I)-bearing dendrimers from alkyne precursors. <i>Dalton Transactions</i> , 2011 , 40, 8083-5	4.3	23
65	Injectable liquid polymers extend the delivery of corticosteroids for the treatment of osteoarthritis. <i>Journal of Controlled Release</i> , 2018 , 284, 112-121	11.7	20
64	Current Options and Emerging Biomaterials for Periprosthetic Joint Infection. <i>Current Rheumatology Reports</i> , 2018 , 20, 33	4.9	19
63	Using Affinity To Provide Long-Term Delivery of Antiangiogenic Drugs in Cancer Therapy. <i>Molecular Pharmaceutics</i> , 2017 , 14, 899-907	5.6	16

62	Infection prevention using affinity polymer-coated, synthetic meshes in a pig hernia model. <i>Journal of Surgical Research</i> , 2017 , 219, 5-10	2.5	16
61	Cyclodextrin Polymer Preserves Sirolimus Activity and Local Persistence for Antifibrotic Delivery over the Time Course of Wound Healing. <i>Molecular Pharmaceutics</i> , 2019 , 16, 1766-1774	5.6	15
60	Electrospinning and Imaging. <i>Advanced Engineering Materials</i> , 2012 , 14, B266-B278	3.5	15
59	Using glycosaminoglycan/chemokine interactions for the long-term delivery of 5P12-RANTES in HIV prevention. <i>Molecular Pharmaceutics</i> , 2013 , 10, 3564-73	5.6	14
58	Local release from affinity-based polymers increases urethral concentration of the stem cell chemokine CCL7 in rats. <i>Biomedical Materials (Bristol)</i> , 2016 , 11, 025022	3.5	12
57	Adjustable release of mitomycin C for inhibition of scar tissue formation after filtration surgery. <i>Experimental Eye Research</i> , 2013 , 116, 9-16	3.7	12
56	Endothelial progenitor populations in differentiating embryonic stem cells I: Identification and differentiation kinetics. <i>Tissue Engineering - Part A</i> , 2009 , 15, 3709-18	3.9	12
55	High-throughput in vitro assay to evaluate the cytotoxicity of liberated platinum compounds for stimulating neural electrodes. <i>Journal of Neuroscience Methods</i> , 2016 , 273, 1-9	3	12
54	Serum biomolecules unable to compete with drug refilling into cyclodextrin polymers regardless of the form. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 5320-5327	7.3	11
53	Differences in F36VMpl-based in vivo selection among large animal models. <i>Molecular Therapy</i> , 2004 , 10, 730-40	11.7	11
52	Combination Antibiotic Delivery in PMMA Provides Sustained Broad-Spectrum Antimicrobial Activity and Allows for Postimplantation Refilling. <i>Biomacromolecules</i> , 2020 , 21, 854-866	6.9	10
51	Pseudopolyrotaxane Formation in the Synthesis of Cyclodextrin Polymers: Effects on Drug Delivery, Mechanics, and Cell Compatibility. <i>Bioconjugate Chemistry</i> , 2017 , 28, 1048-1058	6.3	9
50	Featured Article: Chemotherapeutic delivery using pH-responsive, affinity-based release. <i>Experimental Biology and Medicine</i> , 2017 , 242, 692-699	3.7	9
49	Let There Be Light: Targeted Photodynamic Therapy Using High Aspect Ratio Plant Viral Nanoparticles. <i>Macromolecular Bioscience</i> , 2019 , 19, e1800407	5.5	9
48	Peptide and protein-based inhibitors of HIV-1 co-receptors. <i>Experimental Biology and Medicine</i> , 2013 , 238, 442-9	3.7	9
47	Cell culture platform with mechanical conditioning and nondamaging cellular detachment. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 93, 411-8	5.4	9
46	Multiplexing interactions to control antibiotic release from cyclodextrin hydrogels. <i>Macromolecular Bioscience</i> , 2011 , 11, 1544-52	5.5	9
45	Local delivery polymer provides sustained antifungal activity of amphotericin B with reduced cytotoxicity. <i>Experimental Biology and Medicine</i> , 2019 , 244, 526-533	3.7	8

44	Photoinitiator-free synthesis of endothelial cell-adhesive and enzymatically degradable hydrogels. <i>Acta Biomaterialia</i> , 2015 , 13, 52-60	10.8	8
43	Periadventitial Delivery of Simvastatin-Loaded Microparticles Attenuate Venous Neointimal Hyperplasia Associated With Arteriovenous Fistula. <i>Journal of the American Heart Association</i> , 2020 , 9, e018418	6	8
42	Providing sustained transgene induction through affinity-based drug delivery. <i>Journal of Biomedical Materials Research - Part A</i> , 2016 , 104, 1135-42	5.4	8
41	Use of affinity allows anti-inflammatory and anti-microbial dual release that matches suture wound resolution. <i>Journal of Biomedical Materials Research - Part A</i> , 2019 , 107, 1434-1442	5.4	7
40	Repurposing biodegradable tissue engineering scaffolds for localized chemotherapeutic delivery. <i>Journal of Biomedical Materials Research - Part A</i> , 2020 , 108, 1144-1158	5.4	7
39	Antibiotic Refilling, Antimicrobial Activity, and Mechanical Strength of PMMA Bone Cement Composites Critically Depend on the Processing Technique. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 4024-4035	5.5	6
38	Novel thermally reversible hydrogel as detachable cell culture substrate 1998 , 40, 631		6
37	Localized Affinity-Based Delivery of Prinomastat for Cancer Treatment. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 238-242	5.5	5
36	Surface sulfonamide modification of poly(N-isopropylacrylamide)-based block copolymer micelles to alter pH and temperature responsive properties for controlled intracellular uptake. <i>Journal of Biomedical Materials Research - Part A</i> , 2018 , 106, 1552-1560	5.4	5
35	Affinity-Based Drug Delivery 2014 , 429-452		5
34	Resveratrol Delivery from Implanted Cyclodextrin Polymers Provides Sustained Antioxidant Effect on Implanted Neural Probes. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	5
33	Using QSARs for predictions in drug delivery		5
32	Machine learning and big data provide crucial insight for future biomaterials discovery and research. <i>Acta Biomaterialia</i> , 2021 , 130, 54-65	10.8	5
31	Microparticle delivery of Interleukin-7 to boost T-cell proliferation and survival. <i>Biotechnology and Bioengineering</i> , 2012 , 109, 1835-43	4.9	4
30	Affinity-based polymers provide long-term immunotherapeutic drug delivery across particle size ranges optimal for macrophage targeting		4
29	Engineering selective molecular tethers to enhance suboptimal drug properties. <i>Acta Biomaterialia</i> , 2020 , 115, 383-392	10.8	4
28	Elucidating the Structure-Function Relationship of Solvent and Cross-Linker on Affinity-Based Release from Cyclodextrin Hydrogels. <i>Gels</i> , 2020 , 6,	4.2	4
27	Nonthermal plasma treatment of polymers modulates biological fouling but can cause material embrittlement. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 113, 104126	4.1	4

26	Bioconjugation Strategies: Lipids, Liposomes, Polymersomes, and Microbubbles 2014 , 185-202		3
25	Multiplexing Interactions to Control Antibiotic Release from Cyclodextrin Hydrogels. <i>Macromolecular Bioscience</i> , 2011 , 11, n/a-n/a	5.5	3
24	Endothelial progenitor populations in differentiating embryonic stem cells. II. Drug selection and functional characterization. <i>Tissue Engineering - Part A</i> , 2010 , 16, 1065-74	3.9	3
23	Cyclodextrin polymer coatings resist protein fouling, mammalian cell adhesion, and bacterial attachment		3
22	Nonthermal plasma treatment of polymers modulates biological fouling but can cause material embrittlement		3
21	Modified Cyclodextrin Microparticles to Improve PMMA Drug Delivery Without Mechanical Loss. <i>Macromolecular Bioscience</i> , 2021 , 21, e2000328	5.5	3
20	Affinity Effects on the Release of Non-Conventional Antifibrotics from Polymer Depots. <i>Pharmaceutics</i> , 2020 , 12,	6.4	2
19	From Biocompatibility to Immune Engineering. <i>Experimental Biology and Medicine</i> , 2016 , 241, 889-90	3.7	2
18	Evaluation of an in vivo model for ventricular shunt infection: a pilot study using a novel antimicrobial-loaded polymer. <i>Journal of Neurosurgery</i> , 2018 , 131, 587-595	3.2	2
17	Affinity-based delivery systems	419-430	2
16	Injectable Extracellular Matrix Microparticles Promote Heart Regeneration in Mice with Post-ischemic Heart Injury.. <i>Advanced Healthcare Materials</i> , 2022 , e2102265	10.1	2
15	Recent Advances in the Evaluation of Antimicrobial Materials for Resolution of Orthopedic Implant-Associated Infections. <i>ACS Infectious Diseases</i> , 2021 , 7, 3125-3160	5.5	2
14	Predicting Drug Interactions to Unassociated Biomedical Implants Using Machine Learning Techniques and Model Polymers		2
13	Using nonthermal plasma treatment to improve quality and durability of hydrophilic coatings on hydrophobic polymer surfaces		2
12	Nonthermal Plasma Treatment Improves Uniformity and Adherence of Cyclodextrin-Based Coatings on Hydrophobic Polymer Substrates. <i>Coatings</i> , 2020 , 10, 1056	2.9	2
11	Poly(methyl methacrylate) Bone Cement Composite Can Be Refilled with Antibiotics after Implantation in Femur or Soft Tissue. <i>Journal of Functional Biomaterials</i> , 2021 , 12,	4.8	2
10	Contractile Protein and Extracellular Matrix Secretion of Cell Monolayer Sheets Following Cyclic Stretch. <i>Cardiovascular Engineering and Technology</i> , 2012 , 3, 302-310	2.2	1
9	Engineering Selective Molecular Tethers to Enhance Suboptimal Drug Properties		1

8	Leveraging Affinity Interactions to Prolong Drug Delivery of Protein Therapeutics		1
7	Affinity-Based Polymers Provide Long-Term Immunotherapeutic Drug Delivery Across Particle Size Ranges Optimal for Macrophage Targeting. <i>Journal of Pharmaceutical Sciences</i> , 2021 , 110, 1693-1700	3.9	1
6	A Polymeric Delivery System Enables Controlled Release of Genipin for Spatially-Confin ed In Situ Crosslinking of Injured Connective Tissues. <i>Journal of Pharmaceutical Sciences</i> , 2021 , 110, 815-823	3.9	1
5	Characterization of Inflammatory and Fibrotic Encapsulation Responses of Implanted Materials with Bacterial Infection. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 4474-4482	5.5	1
4	PMMA Bone Cement Composite Functions as an Adjuvant Chemotherapeutic Platform for Localized and Multi-Window Release During Bone Reconstruction.. <i>Macromolecular Bioscience</i> , 2022 , e2100415	5.5	0
3	Ultrasound Triggered Drug Release from Affinity-Based β Cyclodextrin Polymers for Infection Control. <i>Annals of Biomedical Engineering</i> , 2021 , 49, 2513-2521	4.7	0
2	Leveraging Affinity Interactions to Prolong Drug Delivery of Protein Therapeutics. <i>Pharmaceutics</i> , 2022 , 14, 1088	6.4	0
1	Microbiome: Our opponents or allies in healthcare and medicine. <i>Experimental Biology and Medicine</i> , 2019 , 244, 405-407	3.7	