

Horst A Von Recum

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6856775/horst-a-von-recum-publications-by-year.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Injectable Extracellular Matrix Microparticles Promote Heart Regeneration in Mice with Post-ischemic Heart Injury.. <i>Advanced Healthcare Materials</i> , 2022 , e2102265	10.1	2
96	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
95	Leveraging Affinity Interactions to Prolong Drug Delivery of Protein Therapeutics. <i>Pharmaceutics</i> , 2022 , 14, 1088	6.4	0
94	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
93	Modified Cyclodextrin Microparticles to Improve PMMA Drug Delivery Without Mechanical Loss. <i>Macromolecular Bioscience</i> , 2021 , 21, e2000328	5.5	3
92	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
91	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
90	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
89	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
88	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
87	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
86	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
85	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
84	Affinity Effects on the Release of Non-Conventional Antifibrotics from Polymer Depots. <i>Pharmaceutics</i> , 2020 , 12,	6.4	2
83	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
82	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
81	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

80	Nonthermal Plasma Treatment Improves Uniformity and Adherence of Cyclodextrin-Based Coatings on Hydrophobic Polymer Substrates. <i>Coatings</i> , 2020 , 10, 1056	2.9	2
79	Engineering selective molecular tethers to enhance suboptimal drug properties. <i>Acta Biomaterialia</i> , 2020 , 115, 383-392	10.8	4
78	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
77	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
76	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
75	Microbiome: Our opponents or allies in healthcare and medicine. <i>Experimental Biology and Medicine</i> , 2019 , 244, 405-407	3.7	
74	Let There Be Light: Targeted Photodynamic Therapy Using High Aspect Ratio Plant Viral Nanoparticles. <i>Macromolecular Bioscience</i> , 2019 , 19, e1800407	5.5	9
73	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
72	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
71	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
70	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
69	Molecular Imprinting of Cyclodextrin Supramolecular Hydrogels Improves Drug Loading and Delivery. <i>Macromolecular Bioscience</i> , 2019 , 19, e1800246	5.5	26
68	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
67	Current Options and Emerging Biomaterials for Periprosthetic Joint Infection. <i>Current Rheumatology Reports</i> , 2018 , 20, 33	4.9	19
66	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
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	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
63	Localized Affinity-Based Delivery of Prinomastat for Cancer Treatment. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 238-242	5.5	5

62	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
61	Using Affinity To Provide Long-Term Delivery of Antiangiogenic Drugs in Cancer Therapy. <i>Molecular Pharmaceutics</i> , 2017 , 14, 899-907	5.6	16
60	Featured Article: Chemotherapeutic delivery using pH-responsive, affinity-based release. <i>Experimental Biology and Medicine</i> , 2017 , 242, 692-699	3.7	9
59	Emerging technologies for long-term antimicrobial device coatings: advantages and limitations. <i>Experimental Biology and Medicine</i> , 2017 , 242, 788-798	3.7	49
58	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
57	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
56	Erythromycin Modification That Improves Its Acidic Stability while Optimizing It for Local Drug Delivery. <i>Antibiotics</i> , 2017 , 6,	4.9	26
55	Antibiotic-releasing microspheres prevent mesh infection in vivo. <i>Journal of Surgical Research</i> , 2016 , 206, 41-47	2.5	28
54	From Biocompatibility to Immune Engineering. <i>Experimental Biology and Medicine</i> , 2016 , 241, 889-90	3.7	2
53	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
52	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
51	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
50	Photoinitiator-free synthesis of endothelial cell-adhesive and enzymatically degradable hydrogels. <i>Acta Biomaterialia</i> , 2015 , 13, 52-60	10.8	8
49	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
48	Enhancing the Mechanical Properties of Guanosine-Based Supramolecular Hydrogels with Guanosine-Containing Polymers. <i>Macromolecules</i> , 2014 , 47, 1810-1818	5.5	33
47	The role of CXCL12 and CCL7 chemokines in immune regulation, embryonic development, and tissue regeneration. <i>Cytokine</i> , 2014 , 69, 277-83	4	35
46	Bioconjugation Strategies: Lipids, Liposomes, Polymersomes, and Microbubbles 2014 , 185-202		3
45	Affinity-Based Drug Delivery 2014 , 429-452		5

44	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
43	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
42	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
41	Peptide and protein-based inhibitors of HIV-1 co-receptors. <i>Experimental Biology and Medicine</i> , 2013 , 238, 442-9	3.7	9
40	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
39	Toward potential supramolecular tissue engineering scaffolds based on guanosine derivatives. <i>Chemical Science</i> , 2012 , 3, 564-572	9.4	68
38	Electrospinning and Imaging. <i>Advanced Engineering Materials</i> , 2012 , 14, B266-B278	3.5	15
37	Microparticle delivery of Interleukin-7 to boost T-cell proliferation and survival. <i>Biotechnology and Bioengineering</i> , 2012 , 109, 1835-43	4.9	4
36	The role of nanomaterials in translational medicine. <i>ACS Nano</i> , 2011 , 5, 3419-24	16.7	61
35	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
34	Affinity-based drug delivery. <i>Macromolecular Bioscience</i> , 2011 , 11, 321-32	5.5	136
33	Multiplexing Interactions to Control Antibiotic Release from Cyclodextrin Hydrogels. <i>Macromolecular Bioscience</i> , 2011 , 11, n/a-n/a	5.5	3
32	Cytotoxic gold(I)-bearing dendrimers from alkyne precursors. <i>Dalton Transactions</i> , 2011 , 40, 8083-5	4.3	23
31	Multiplexing interactions to control antibiotic release from cyclodextrin hydrogels. <i>Macromolecular Bioscience</i> , 2011 , 11, 1544-52	5.5	9
30	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
29	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
28	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
27	Cyclodextrin complexation for affinity-based antibiotic delivery. <i>Macromolecular Bioscience</i> , 2010 , 10, 82-90	5.5	81

26	Cyclodextrin-based device coatings for affinity-based release of antibiotics. <i>Biomaterials</i> , 2010 , 31, 2335-476	137
25	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
24	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
23	Electrospinning: applications in drug delivery and tissue engineering. <i>Biomaterials</i> , 2008 , 29, 1989-2006	15.6 2436
22	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
21	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
20	Supramolecular assembly of cyclodextrin-based nanoparticles on solid surfaces for gene delivery. <i>Langmuir</i> , 2006 , 22, 8478-84	4 71
19	Differences in F36VMpl-based in vivo selection among large animal models. <i>Molecular Therapy</i> , 2004 , 10, 730-40	11.7 11
18	Biocompatibility and biofouling of MEMS drug delivery devices. <i>Biomaterials</i> , 2003 , 24, 1959-67	15.6 444
17	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 ⁵	249
16	Growth factor and matrix molecules preserve cell function on thermally responsive culture surfaces. <i>Tissue Engineering</i> , 1999 , 5, 251-65	43
15	Maintenance of retinoid metabolism in human retinal pigment epithelium cell culture. <i>Experimental Eye Research</i> , 1999 , 69, 97-107	3.7 36
14	Growth factor release from thermally reversible tissue culture substrates. <i>Journal of Controlled Release</i> , 1998 , 55, 121-30	11.7 51
13	Novel thermally reversible hydrogel as detachable cell culture substrate. <i>Journal of Biomedical Materials Research Part B</i> , 1998 , 40, 631-9	87
12	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
11	Novel thermally reversible hydrogel as detachable cell culture substrate 1998 , 40, 631	6
10	Degradation of polydispersed poly(L-lactic acid) to modulate lactic acid release. <i>Biomaterials</i> , 1995 , 16, 441-7	15.6 95
9	Affinity-based delivery systems419-430	2

8	Cyclodextrin polymer coatings resist protein fouling, mammalian cell adhesion, and bacterial attachment	3
7	Engineering Selective Molecular Tethers to Enhance Suboptimal Drug Properties	1
6	Predicting Drug Interactions to Unassociated Biomedical Implants Using Machine Learning Techniques and Model Polymers	2
5	Leveraging Affinity Interactions to Prolong Drug Delivery of Protein Therapeutics	1
4	Using QSARs for predictions in drug delivery	5
3	Affinity-based polymers provide long-term immunotherapeutic drug delivery across particle size ranges optimal for macrophage targeting	4
2	Nonthermal plasma treatment of polymers modulates biological fouling but can cause material embrittlement	3
1	Using nonthermal plasma treatment to improve quality and durability of hydrophilic coatings on hydrophobic polymer surfaces	2