

Richard R Koepsel

List of Publications by Year in descending order

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60
papers

4,143
citations

159525

30
h-index

138417

58
g-index

60
all docs

60
docs citations

60
times ranked

5094
citing authors

#	ARTICLE	IF	CITATIONS
1	Erythrocytes as carriers of immunoglobulin-based therapeutics. <i>Acta Biomaterialia</i> , 2020, 101, 422-435.	4.1	25
2	Bactericidal Specificity and Resistance Profile of Poly(Quaternary Ammonium) Polymers and Protein- ϵ -Poly(Quaternary Ammonium) Conjugates. <i>Biomacromolecules</i> , 2017, 18, 2583-2593.	2.6	43
3	Improved power density of an enzymatic biofuel cell with fibrous supports of high curvature. <i>RSC Advances</i> , 2016, 6, 10150-10158.	1.7	25
4	The Effect of Covalently-Attached ATRP-Synthesized Polymers on Membrane Stability and Cytoprotection in Human Erythrocytes. <i>PLoS ONE</i> , 2016, 11, e0157641.	1.1	7
5	Membrane/Mediator-Free Rechargeable Enzymatic Biofuel Cell Utilizing Graphene/Single-Wall Carbon Nanotube Cogel Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 4056-4065.	4.0	74
6	Crosslinked poly(ethylene oxide) containing siloxanes fabricated through thiol- ϵ ene photochemistry. <i>Journal of Polymer Science Part A</i> , 2015, 53, 1548-1557.	2.5	23
7	Multifunctional photo-crosslinked polymeric ionic hydrogel films. <i>Polymer Chemistry</i> , 2014, 5, 2824-2835.	1.9	20
8	Engineering of cell membranes with a bisphosphonate-containing polymer using ATRP synthesis for bone targeting. <i>Biomaterials</i> , 2014, 35, 9447-9458.	5.7	29
9	Rational Tailoring of Substrate and Inhibitor Affinity via ATRP Polymer-Based Protein Engineering. <i>Biomacromolecules</i> , 2014, 15, 2817-2823.	2.6	54
10	Dramatically Increased pH and Temperature Stability of Chymotrypsin Using Dual Block Polymer-Based Protein Engineering. <i>Biomacromolecules</i> , 2014, 15, 763-771.	2.6	99
11	Polymer-Based Protein Engineering Can Rationally Tune Enzyme Activity, pH-Dependence, and Stability. <i>Biomacromolecules</i> , 2013, 14, 1919-1926.	2.6	114
12	Tailoring enzyme activity and stability using polymer-based protein engineering. <i>Biomaterials</i> , 2013, 34, 7437-7443.	5.7	104
13	Salicylic acid-releasing polyurethane acrylate polymers as anti-biofilm urological catheter coatings. <i>Acta Biomaterialia</i> , 2012, 8, 1869-1880.	4.1	93
14	Direct electron transfer in a mediator-free glucose oxidase-based carbon nanotube-coated biosensor. <i>Carbon</i> , 2012, 50, 4010-4020.	5.4	71
15	Tailoring the Trajectory of Cell Rolling with Cytotactic Surfaces. <i>Langmuir</i> , 2011, 27, 15345-15351.	1.6	7
16	Recyclable Antibacterial Magnetic Nanoparticles Grafted with Quaternized Poly(2-(dimethylamino)ethyl methacrylate) Brushes. <i>Biomacromolecules</i> , 2011, 12, 1305-1311.	2.6	190
17	Enhanced recombinant protein production in pyruvate kinase mutant of <i>Bacillus subtilis</i> . <i>Applied Microbiology and Biotechnology</i> , 2010, 85, 1769-1778.	1.7	3
18	Decontamination of chemical and biological warfare agents with a single multi-functional material. <i>Biomaterials</i> , 2010, 31, 4417-4425.	5.7	41

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19	Dynamic Oxygen Enhances Oocyte Maturation in Long-Term Follicle Culture. <i>Tissue Engineering - Part C: Methods</i> , 2009, 15, 323-332.	1.1	30
20	Pyruvate Kinase-Deficient <i>Escherichia coli</i> Exhibits Increased Plasmid Copy Number and Cyclic AMP Levels. <i>Journal of Bacteriology</i> , 2009, 191, 3041-3049.	1.0	48
21	Production, purification, and characterization of a fusion protein of carbonic anhydrase from <i>Neisseria gonorrhoeae</i> and cellulose binding domain from <i>Clostridium thermocellum</i> . <i>Biotechnology Progress</i> , 2009, 25, 68-74.	1.3	24
22	The Scarf: studying potential antifibrotic compounds from the epigenetic to extracellular level in a single well. <i>British Journal of Pharmacology</i> , 2009, 158, 1196-1209.	2.7	136
23	Carbonic anhydrase-facilitated CO ₂ absorption with polyacrylamide buffering bead capture. <i>International Journal of Greenhouse Gas Control</i> , 2009, 3, 401-410.	2.3	36
24	Use of proteomics for design of a tailored host cell for highly efficient protein purification. <i>Journal of Chromatography A</i> , 2009, 1216, 2433-2438.	1.8	21
25	Polyurethane-based leukocyte-inspired biocidal materials. <i>Biomaterials</i> , 2009, 30, 6522-6529.	5.7	23
26	Factors affecting plasmid production in <i>Escherichia coli</i> from a resource allocation standpoint. <i>Microbial Cell Factories</i> , 2009, 8, 27.	1.9	46
27	Matrix metalloproteinase-1 treatment of muscle fibrosis. <i>Acta Biomaterialia</i> , 2008, 4, 1411-1420.	4.1	56
28	Regulating Expression of Pyruvate Kinase in <i>Bacillus subtilis</i> for Control of Growth Rate and Formation of Acidic Byproducts. <i>Biotechnology Progress</i> , 2008, 22, 1451-1455.	1.3	7
29	Nonleaching Antibacterial Glass Surfaces via Grafting Onto: The Effect of the Number of Quaternary Ammonium Groups on Biocidal Activity. <i>Langmuir</i> , 2008, 24, 6785-6795.	1.6	205
30	Antibacterial Polypropylene via Surface-Initiated Atom Transfer Radical Polymerization. <i>Biomacromolecules</i> , 2007, 8, 1396-1399.	2.6	298
31	Permanent, non-leaching antibacterial surfaces: How high density cationic surfaces kill bacterial cells. <i>Biomaterials</i> , 2007, 28, 4870-4879.	5.7	639
32	Surface-Active Antifungal Polyquaternary Amine. <i>Biomacromolecules</i> , 2006, 7, 2762-2769.	2.6	78
33	Engineering of <i>Bacillus subtilis</i> for Enhanced Total Synthesis of Folic Acid. <i>Applied and Environmental Microbiology</i> , 2005, 71, 7122-7129.	1.4	37
34	Surface Dispersion and Hardening of Self-Assembled Diacetylene Nanotubes. <i>Nano Letters</i> , 2005, 5, 2202-2206.	4.5	67
35	Calcium alginate microencapsulation of ovarian follicles impacts FSH delivery and follicle morphology. <i>Reproductive Biology and Endocrinology</i> , 2005, 3, 47.	1.4	72
36	Self-Assembly of Biocidal Nanotubes from a Single-Chain Diacetylene Amine Salt. <i>Journal of the American Chemical Society</i> , 2004, 126, 13400-13405.	6.6	130

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37	Maintenance of Morphology and Growth of Ovarian Follicles in Suspension Culture. <i>Tissue Engineering</i> , 2004, 10, 545-552.	4.9	28
38	Permanent, Nonleaching Antibacterial Surfaces. 1. Synthesis by Atom Transfer Radical Polymerization. <i>Biomacromolecules</i> , 2004, 5, 877-882.	2.6	522
39	Transforming Growth Factor- β Isoform Expression in the Perisutural Tissues of Craniosynostotic Rabbits. <i>Cleft Palate-Craniofacial Journal</i> , 2004, 41, 392-402.	0.5	41
40	A metabolic network analysis & NMR experiment design tool with user interface-driven model construction for depth-first search analysis. <i>Metabolic Engineering</i> , 2003, 5, 74-85.	3.6	15
41	Suspension culture of intact ovarian follicles maintains spherical three-dimensional structure better than traditional tissue culture. <i>Fertility and Sterility</i> , 2003, 80, 27.	0.5	0
42	Directed Capture of Enzymes and Bacteria on Bioplastic Films. <i>Biomacromolecules</i> , 2003, 4, 850-855.	2.6	19
43	Biomaterials for Mediation of Chemical and Biological Warfare Agents. <i>Annual Review of Biomedical Engineering</i> , 2003, 5, 1-27.	5.7	183
44	A MILP-Based Flux Alternative Generation and NMR Experimental Design Strategy for Metabolic Engineering. <i>Metabolic Engineering</i> , 2001, 3, 124-137.	3.6	30
45	Comparison of Energy-Minimized Structures of [PdII(N-methyliminodiacetate)] Complexes of X1-His-X3-His-His Peptides as an Analysis of Steric and Specific Interactions with Synthetic Binding Tags for IMAC Separations. <i>Biotechnology Progress</i> , 2001, 17, 712-719.	1.3	4
46	Cell Growth and By-Product Formation in a Pyruvate Kinase Mutant of <i>E. coli</i> . <i>Biotechnology Progress</i> , 2001, 17, 624-628.	1.3	33
47	Design of Affinity Tags for One-Step Protein Purification from Immobilized Zinc Columns. <i>Biotechnology Progress</i> , 2000, 16, 86-91.	1.3	26
48	Characterization of Growth and Acid Formation in a <i>Bacillus subtilis</i> Pyruvate Kinase Mutant. <i>Applied and Environmental Microbiology</i> , 2000, 66, 4045-4049.	1.4	49
49	Coordination of Two High-Affinity Hexamer Peptides to Copper(II) and Palladium(II) Models of the Peptide-Metal Chelation Site on IMAC Resins. <i>Inorganic Chemistry</i> , 2000, 39, 1180-1186.	1.9	26
50	Coordination of the six-mer peptide Gly-His-Pro-His-His-Gly to CuII and PdII N-methyliminodiacetate complexes as IMAC chelation site models. <i>Journal of Inorganic Biochemistry</i> , 1999, 76, 211-220.	1.5	14
51	Vector Engineering Anomalies: Impact on Fusion Protein Purification Performance. <i>Protein Expression and Purification</i> , 1999, 17, 449-455.	0.6	2
52	Title is missing!. <i>Biotechnology Letters</i> , 1998, 12, 421-424.	0.5	6
53	Identification of zinc proteins in rat parotid saliva. <i>Archives of Oral Biology</i> , 1997, 42, 173-179.	0.8	5
54	Selection of optimum affinity tags from a phage-displayed peptide library Application to immobilized copper(II) affinity chromatography. <i>Journal of Chromatography A</i> , 1997, 787, 91-100.	1.8	76

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55	Structural Basis for the Sequence Selectivity of DNA Cleavage by Bleomycins. <i>Biochemical and Biophysical Research Communications</i> , 1993, 191, 420-426.	1.0	4
56	A ferryl(V) pathway in DNA cleavage induced by Fe II (haph) with O ₂ or H ₂ O ₂ . <i>Journal of the Chemical Society Chemical Communications</i> , 1992, , 222.	2.0	8
57	The crystal structure of [Cu(HAPH)]ClO ₄ ·1.6H ₂ O and the cleavage of DNA by analogs of the metal binding core of bleomycin. <i>Inorganica Chimica Acta</i> , 1990, 171, 139-149.	1.2	16
58	Mechanism of plasmid pT181 DNA replication. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1988, 951, 375-381.	2.4	15
59	Cleavage of single-stranded DNA by plasmid pT 181-encoded RepC protein. <i>Nucleic Acids Research</i> , 1987, 15, 4085-4097.	6.5	45
60	Dynamic Oxygen Enhances Oocyte Maturation in Long-Term Follicle Culture. <i>Tissue Engineering - Part A</i> , 0, , 110306231138043.	1.6	1