

# Hans Bäumler

## List of Publications by Year in descending order

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69  
papers

3,735  
citations

159585

30  
h-index

123424

61  
g-index

71  
all docs

71  
docs citations

71  
times ranked

4826  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bacterial safety study of the production process of hemoglobin-based oxygen carriers. Beilstein Journal of Nanotechnology, 2022, 13, 114-126.	2.8	1
2	Fabrication and Characterization of Human Serum Albumin Particles Loaded with Non-Sericin Extract Obtained from Silk Cocoon as a Carrier System for Hydrophobic Substances. Polymers, 2021, 13, 334.	4.5	4
3	Targeted Propolis-Loaded Poly (Butyl) Cyanoacrylate Nanoparticles: An Alternative Drug Delivery Tool for the Treatment of Cryptococcal Meningitis. Frontiers in Pharmacology, 2021, 12, 723727.	3.5	10
4	Determination of Methemoglobin in Hemoglobin Submicron Particles Using NMR Relaxometry. International Journal of Molecular Sciences, 2020, 21, 8978.	4.1	2
5	Doxorubicin-Loaded Human Serum Albumin Submicron Particles: Preparation, Characterization and In Vitro Cellular Uptake. Pharmaceutics, 2020, 12, 224.	4.5	13
6	Riboflavin: The Health Benefits of a Forgotten Natural Vitamin. International Journal of Molecular Sciences, 2020, 21, 950.	4.1	175
7	Surface Modification of Hemoglobin-Based Oxygen Carriers Reduces Recognition by Haptoglobin, Immunoglobulin, and Hemoglobin Antibodies. Coatings, 2019, 9, 454.	2.6	7
8	In-vitro haemocompatibility of dextran-protein submicron particles. Artificial Cells, Nanomedicine and Biotechnology, 2019, 47, 241-249.	2.8	7
9	Albumin Submicron Particles with Entrapped Riboflavin-Fabrication and Characterization. Nanomaterials, 2019, 9, 482.	4.1	7
10	Detection of CD33 expression on monocyte surface is influenced by phagocytosis and temperature. General Physiology and Biophysics, 2019, 38, 369-378.	0.9	1
11	Inflammatory activation of human serum albumin- or ovalbumin-modified chitosan particles to macrophages and their immune response in human whole blood. Journal of Materials Chemistry B, 2018, 6, 3096-3106.	5.8	7
12	Structure and properties of hybrid biopolymer particles fabricated by co-precipitation cross-linking dissolution procedure. Journal of Colloid and Interface Science, 2018, 514, 156-164.	9.4	18
13	Preclinical In Vitro Safety Investigations of Submicron Sized Hemoglobin Based Oxygen Carrier HbMP-700. Artificial Organs, 2018, 42, 549-559.	1.9	13
14	Antioxidative protection of haemoglobin microparticles (HbMPs) by PolyDopamine. Artificial Cells, Nanomedicine and Biotechnology, 2018, 46, S693-S701.	2.8	16
15	Improved oxygen storage capacity of haemoglobin submicron particles by one-pot formulation. Artificial Cells, Nanomedicine and Biotechnology, 2018, 46, S964-S972.	2.8	10
16	RBC aggregation in dextran solutions can be measured by flow cytometry. Clinical Hemorheology and Microcirculation, 2017, 65, 93-101.	1.7	6
17	Photo-Decomposable Sub-Micrometer Albumin Particles Cross-Linked by ortho-Nitrobenzyl Derivatives. Macromolecular Chemistry and Physics, 2017, 218, 1700413.	2.2	6
18	Light-induced antibacterial activity of electrospun chitosan-based material containing photosensitizer. Materials Science and Engineering C, 2017, 70, 311-316.	7.3	31

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19	Temperature rise around nanoparticles. Journal of Thermal Analysis and Calorimetry, 2017, 127, 895-904.	3.6	11
20	Effects of heat and freeze on isolated erythrocyte submembrane skeletons. General Physiology and Biophysics, 2017, 36, 155-165.	0.9	8
21	Photosensitizer-loaded electrospun chitosan-based scaffolds for photodynamic therapy and tissue engineering. Colloids and Surfaces B: Biointerfaces, 2016, 144, 57-64.	5.0	32
22	Non-Destructive Mechanical Testing of Allograft Bone-Implants by Analytic Centrifugation. Experimental Mechanics, 2016, 56, 1653-1660.	2.0	3
23	On the molecular interaction between albumin and ibuprofen: An AFM and QCM-D study. Colloids and Surfaces B: Biointerfaces, 2015, 134, 355-362.	5.0	7
24	Novel Hemoglobin Particles-Promising New-Generation Hemoglobin-Based Oxygen Carriers. Artificial Organs, 2014, 38, 708-714.	1.9	36
25	Kinetics and Efficiency of a Methylated C-5-Fluorouracil-Bovine Serum Albumin Adduct for Targeted Delivery. Macromolecular Bioscience, 2014, 14, 428-439.	4.1	6
26	Nonvasoconstrictive Hemoglobin Particles as Oxygen Carriers. ACS Nano, 2013, 7, 7454-7461.	14.6	87
27	Surface-modified loaded human red blood cells for targeting and delivery of drugs. Journal of Microencapsulation, 2012, 29, 9-20.	2.8	32
28	Hemoglobin-Based Oxygen Carrier Microparticles: Synthesis, Properties, and In Vitro and In Vivo Investigations. Biomacromolecules, 2012, 13, 3292-3300.	5.4	79
29	Nanoplasmonics for Dual-Molecule Release through Nanopores in the Membrane of Red Blood Cells. ACS Nano, 2012, 6, 4169-4180.	14.6	136
30	Blood Cells as Carriers for Magnetically Targeted Delivery of Drugs. , 2012, , 387-418.		0
31	The effect of olive oil polyphenols on antibodies against oxidized LDL. A randomized clinical trial. Clinical Nutrition, 2011, 30, 490-493.	5.0	71
32	New 4-Maleamic Acid and 4-Maleamide Peptidyl Chalcones as Potential Multitarget Drugs for Human Prostate Cancer. Pharmaceutical Research, 2011, 28, 907-919.	3.5	25
33	Biodegradable insulin-loaded PLGA microspheres fabricated by three different emulsification techniques: Investigation for cartilage tissue engineering. Acta Biomaterialia, 2011, 7, 1485-1495.	8.3	79
34	Physical attachment of fluorescent protein particles to atomic force microscopy probes in aqueous media: Implications for surface pH, fluorescence, and mechanical properties studies. Microscopy Research and Technique, 2010, 73, 746-751.	2.2	2
35	Protein Particles Formed by Protein Activation and Spontaneous Self-Assembly. Advanced Functional Materials, 2010, 20, 4139-4144.	14.9	35
36	Measurement Conditions for Flow Cytometry Analyses of Cell Lines from Urological Carcinomas. Journal of Fluorescence, 2010, 20, 779-786.	2.5	2

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37	Modification of Aminosilanized Superparamagnetic Nanoparticles: Feasibility of Multimodal Detection Using 3T MRI, Small Animal PET, and Fluorescence Imaging. <i>Molecular Imaging and Biology</i> , 2010, 12, 25-34.	2.6	74
38	In vitro Inhibition of Fungal Activity by Macrophage-Mediated Sequestration and Release of Encapsulated Amphotericin B Nanosuspension in Red Blood Cells. <i>Small</i> , 2010, 6, 96-103.	10.0	44
39	Coupled Enzyme Reactions in Multicompartment Microparticles. <i>Biomacromolecules</i> , 2010, 11, 1480-1487.	5.4	147
40	Fabrication of Colloidal Stable, Thermosensitive, and Biocompatible Magnetite Nanoparticles and Study of Their Reversible Agglomeration in Aqueous Milieu. <i>Chemistry of Materials</i> , 2009, 21, 1906-1914.	6.7	90
41	Changes in LDL Fatty Acid Composition as a Response to Olive Oil Treatment Are Inversely Related to Lipid Oxidative Damage: The EUROLIVE Study. <i>Journal of the American College of Nutrition</i> , 2008, 27, 314-320.	1.8	84
42	Effect of olive oils on biomarkers of oxidative DNA stress in Northern and Southern Europeans. <i>FASEB Journal</i> , 2007, 21, 45-52.	0.5	134
43	Activity of Immobilized Trypsin in the Layer Structure of Polyelectrolyte Microcapsules (PEMC). <i>Macromolecular Bioscience</i> , 2007, 7, 1243-1249.	4.1	15
44	Role of membrane proteins in thermal damage and necrosis of red blood cells. <i>Thermochimica Acta</i> , 2007, 456, 7-12.	2.7	19
45	Magnetite-Loaded Carrier Erythrocytes as Contrast Agents for Magnetic Resonance Imaging. <i>Nano Letters</i> , 2006, 6, 2505-2509.	9.1	166
46	The Effect of Polyphenols in Olive Oil on Heart Disease Risk Factors. <i>Annals of Internal Medicine</i> , 2006, 145, 333.	3.9	627
47	Red Blood Cell Templated Polyelectrolyte Capsules: A Novel Vehicle for the Stable Encapsulation of DNA and Proteins. <i>Macromolecular Rapid Communications</i> , 2006, 27, 435-440.	3.9	72
48	Micromechanical Properties of Newly Developed Polyelectrolyte Microcapsules (PEMC). , 2005, , 205-216.		5
49	Controlling Ionic Conductivity in Lipid Polyelectrolyte Composite Capsules by Cholesterol. <i>Journal of Physical Chemistry B</i> , 2005, 109, 18025-18030.	2.6	10
50	Permeability and Conductivity of Red Blood Cell Templated Polyelectrolyte Capsules Coated with Supplementary Layers. <i>Langmuir</i> , 2004, 20, 1895-1900.	3.5	57
51	Composite lipid polyelectrolyte capsules templated on red blood cells: fabrication and structural characterisation. <i>Medical and Biological Engineering and Computing</i> , 2003, 41, 504-508.	2.8	15
52	Freeze-Fracture Electron Microscopy of Lipid Membranes on Colloidal Polyelectrolyte Multilayer Coated Supports. <i>Biomacromolecules</i> , 2003, 4, 808-814.	5.4	36
53	Permeation of Macromolecules into Polyelectrolyte Microcapsules. <i>Biomacromolecules</i> , 2002, 3, 517-524.	5.4	91
54	Hollow Polymer Shells from Biological Templates: Fabrication and Potential Applications. <i>Chemistry - A European Journal</i> , 2002, 8, 5481-5485.	3.3	167

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55	Electrophoretic mobility of human erythrocytes in the presence of poly(styrene sulfonate). Electrophoresis, 2002, 23, 2363-2368.	2.4	15
56	Hollow Polymer Shells from Biological Templates: Fabrication and Potential Applications. , 2002, 8, 5481.		1
57	Biological cells as templates for hollow microcapsules. Journal of Microencapsulation, 2001, 18, 385-395.	2.8	146
58	Release of WBC-derived IL-1 receptor antagonist into supernatants of RBCs: influence of storage time and filtration. Transfusion, 2001, 41, 67-73.	1.6	8
59	Novel polyelectrolyte multilayer micro- and nanocapsules as magnetic carriers. Journal of Magnetism and Magnetic Materials, 2001, 225, 59-66.	2.3	78
60	Lipid Coating on Polyelectrolyte Surface Modified Colloidal Particles and Polyelectrolyte Capsules. Macromolecules, 2000, 33, 4538-4544.	4.8	238
61	Plastic behaviour of polyelectrolyte microcapsules derived from colloid templates. Journal of Microencapsulation, 2000, 17, 651-655.	2.8	27
62	From polymeric films to nanoreactors. Macromolecular Symposia, 1999, 145, 75-81.	0.7	25
63	Membrane Filtration for Microencapsulation and Microcapsules Fabrication by Layer-by-Layer Polyelectrolyte Adsorption. Industrial & Engineering Chemistry Research, 1999, 38, 4037-4043.	3.7	220
64	Low Frequency Electrorotation of Fixed Red Blood Cells. Biophysical Journal, 1998, 74, 2114-2120.	0.5	51
65	“Hairy Surface Layer”-Concept of Electrophoresis Combined with Local Fixed Surface Charge Density Isotherms: Application to Human Erythrocyte Electrophoretic Fingerprinting. Langmuir, 1996, 12, 4832-4839.	3.5	45
66	Electrophoretic fingerprinting and multiparameter analysis of cells and particles. Electrophoresis, 1996, 17, 507-511.	2.4	2
67	Topo-optical investigations of human erythrocyte glycocalyx conformational changes induced by dextran. Biochimica Et Biophysica Acta - General Subjects, 1987, 923, 22-28.	2.4	7
68	Aggregation of human red blood cells after moderate heat treatment. Biorheology, 1985, 22, 185-195.	0.4	11
69	Moderate heat treatment of only red blood cells (RBC) slows down the rate of RBC-RBC aggregation in plasma. Biorheology, 1984, 21, 393-403.	0.4	22