

Hans Bäumler

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3627783/publications.pdf>

Version: 2024-02-01

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	The Effect of Polyphenols in Olive Oil on Heart Disease Risk Factors. <i>Annals of Internal Medicine</i> , 2006, 145, 333.	3.9	627
2	Lipid Coating on Polyelectrolyte Surface Modified Colloidal Particles and Polyelectrolyte Capsules. <i>Macromolecules</i> , 2000, 33, 4538-4544.	4.8	238
3	Membrane Filtration for Microencapsulation and Microcapsules Fabrication by Layer-by-Layer Polyelectrolyte Adsorption. <i>Industrial & Engineering Chemistry Research</i> , 1999, 38, 4037-4043.	3.7	220
4	Riboflavin: The Health Benefits of a Forgotten Natural Vitamin. <i>International Journal of Molecular Sciences</i> , 2020, 21, 950.	4.1	175
5	Hollow Polymer Shells from Biological Templates: Fabrication and Potential Applications. <i>Chemistry - A European Journal</i> , 2002, 8, 5481-5485.	3.3	167
6	Magnetite-Loaded Carrier Erythrocytes as Contrast Agents for Magnetic Resonance Imaging. <i>Nano Letters</i> , 2006, 6, 2505-2509.	9.1	166
7	Coupled Enzyme Reactions in Multicompartment Microparticles. <i>Biomacromolecules</i> , 2010, 11, 1480-1487.	5.4	147
8	Biological cells as templates for hollow microcapsules. <i>Journal of Microencapsulation</i> , 2001, 18, 385-395.	2.8	146
9	Nanoplasmonics for Dual-Molecule Release through Nanopores in the Membrane of Red Blood Cells. <i>ACS Nano</i> , 2012, 6, 4169-4180.	14.6	136
10	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
11	Permeation of Macromolecules into Polyelectrolyte Microcapsules. <i>Biomacromolecules</i> , 2002, 3, 517-524.	5.4	91
12	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
13	Nonvasoconstrictive Hemoglobin Particles as Oxygen Carriers. <i>ACS Nano</i> , 2013, 7, 7454-7461.	14.6	87
14	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
15	Biodegradable insulin-loaded PLGA microspheres fabricated by three different emulsification techniques: Investigation for cartilage tissue engineering. <i>Acta Biomaterialia</i> , 2011, 7, 1485-1495.	8.3	79
16	Hemoglobin-Based Oxygen Carrier Microparticles: Synthesis, Properties, and In Vitro and In Vivo Investigations. <i>Biomacromolecules</i> , 2012, 13, 3292-3300.	5.4	79
17	Novel polyelectrolyte multilayer micro- and nanocapsules as magnetic carriers. <i>Journal of Magnetism and Magnetic Materials</i> , 2001, 225, 59-66.	2.3	78
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	The effect of olive oil polyphenols on antibodies against oxidized LDL. A randomized clinical trial. <i>Clinical Nutrition</i> , 2011, 30, 490-493.	5.0	71
21	Permeability and Conductivity of Red Blood Cell Templated Polyelectrolyte Capsules Coated with Supplementary Layers. <i>Langmuir</i> , 2004, 20, 1895-1900.	3.5	57
22	Low Frequency Electrorotation of Fixed Red Blood Cells. <i>Biophysical Journal</i> , 1998, 74, 2114-2120.	0.5	51
23	“Hairy Surface Layer” Concept of Electrophoresis Combined with Local Fixed Surface Charge Density Isotherms: Application to Human Erythrocyte Electrophoretic Fingerprinting. <i>Langmuir</i> , 1996, 12, 4832-4839.	3.5	45
24	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
25	Freeze-Fracture Electron Microscopy of Lipid Membranes on Colloidal Polyelectrolyte Multilayer Coated Supports. <i>Biomacromolecules</i> , 2003, 4, 808-814.	5.4	36
26	Novel Hemoglobin Particles-Promising New-Generation Hemoglobin-Based Oxygen Carriers. <i>Artificial Organs</i> , 2014, 38, 708-714.	1.9	36
27	Protein Particles Formed by Protein Activation and Spontaneous Self-Assembly. <i>Advanced Functional Materials</i> , 2010, 20, 4139-4144.	14.9	35
28	Surface-modified loaded human red blood cells for targeting and delivery of drugs. <i>Journal of Microencapsulation</i> , 2012, 29, 9-20.	2.8	32
29	Photosensitizer-loaded electrospun chitosan-based scaffolds for photodynamic therapy and tissue engineering. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 144, 57-64.	5.0	32
30	Light-induced antibacterial activity of electrospun chitosan-based material containing photosensitizer. <i>Materials Science and Engineering C</i> , 2017, 70, 311-316.	7.3	31
31	Plastic behaviour of polyelectrolyte microcapsules derived from colloid templates. <i>Journal of Microencapsulation</i> , 2000, 17, 651-655.	2.8	27
32	From polymeric films to nanoreactors. <i>Macromolecular Symposia</i> , 1999, 145, 75-81.	0.7	25
33	New 4-Maleamic Acid and 4-Maleamide Peptidyl Chalcones as Potential Multitarget Drugs for Human Prostate Cancer. <i>Pharmaceutical Research</i> , 2011, 28, 907-919.	3.5	25
34	Moderate heat treatment of only red blood cells (RBC) slows down the rate of RBC-RBC aggregation in plasma. <i>Biorheology</i> , 1984, 21, 393-403.	0.4	22
35	Role of membrane proteins in thermal damage and necrosis of red blood cells. <i>Thermochimica Acta</i> , 2007, 456, 7-12.	2.7	19
36	Structure and properties of hybrid biopolymer particles fabricated by co-precipitation cross-linking dissolution procedure. <i>Journal of Colloid and Interface Science</i> , 2018, 514, 156-164.	9.4	18

#	ARTICLE	IF	CITATIONS
37	Antioxidative protection of haemoglobin microparticles (HbMPs) by PolyDopamine. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, S693-S701.	2.8	16
38	Electrophoretic mobility of human erythrocytes in the presence of poly(styrene sulfonate). <i>Electrophoresis</i> , 2002, 23, 2363-2368.	2.4	15
39	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
40	Activity of Immobilized Trypsin in the Layer Structure of Polyelectrolyte Microcapsules (PEMC). <i>Macromolecular Bioscience</i> , 2007, 7, 1243-1249.	4.1	15
41	Preclinical In Vitro Safety Investigations of Submicron Sized Hemoglobin Based Oxygen Carrier HbMPs. <i>Artificial Organs</i> , 2018, 42, 549-559.	1.9	13
42	Doxorubicin-Loaded Human Serum Albumin Submicron Particles: Preparation, Characterization and In Vitro Cellular Uptake. <i>Pharmaceutics</i> , 2020, 12, 224.	4.5	13
43	Aggregation of human red blood cells after moderate heat treatment. <i>Biorheology</i> , 1985, 22, 185-195.	0.4	11
44	Temperature rise around nanoparticles. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 127, 895-904.	3.6	11
45	Controlling Ionic Conductivity in Lipid Polyelectrolyte Composite Capsules by Cholesterol. <i>Journal of Physical Chemistry B</i> , 2005, 109, 18025-18030.	2.6	10
46	Improved oxygen storage capacity of haemoglobin submicron particles by one-pot formulation. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, S964-S972.	2.8	10
47	Targeted Propolis-Loaded Poly (Butyl) Cyanoacrylate Nanoparticles: An Alternative Drug Delivery Tool for the Treatment of Cryptococcal Meningitis. <i>Frontiers in Pharmacology</i> , 2021, 12, 723727.	3.5	10
48	Release of WBC-derived IL-1 receptor antagonist into supernatants of RBCs: influence of storage time and filtration. <i>Transfusion</i> , 2001, 41, 67-73.	1.6	8
49	Effects of heat and freeze on isolated erythrocyte submembrane skeletons. <i>General Physiology and Biophysics</i> , 2017, 36, 155-165.	0.9	8
50	Topo-optical investigations of human erythrocyte glycocalyx conformational changes induced by dextran. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1987, 923, 22-28.	2.4	7
51	On the molecular interaction between albumin and ibuprofen: An AFM and QCM-D study. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 134, 355-362.	5.0	7
52	Inflammatory activation of human serum albumin- or ovalbumin-modified chitosan particles to macrophages and their immune response in human whole blood. <i>Journal of Materials Chemistry B</i> , 2018, 6, 3096-3106.	5.8	7
53	Surface Modification of Hemoglobin-Based Oxygen Carriers Reduces Recognition by Haptoglobin, Immunoglobulin, and Hemoglobin Antibodies. <i>Coatings</i> , 2019, 9, 454.	2.6	7
54	In-vitro haemocompatibility of dextran-protein submicron particles. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2019, 47, 241-249.	2.8	7

#	ARTICLE	IF	CITATIONS
55	Albumin Submicron Particles with Entrapped Riboflavinâ€”Fabrication and Characterization. <i>Nanomaterials</i> , 2019, 9, 482.	4.1	7
56	Kinetics and Efficiency of a Methylâ€”C</sc>arboxylated 5â€”F</sc>luorouracilâ€”B</sc>ovine Serum Albumin Adduct for Targeted Delivery. <i>Macromolecular Bioscience</i> , 2014, 14, 428-439.	4.1	6
57	RBC aggregation in dextran solutions canâ€”be measured by flow cytometry. <i>Clinical Hemorheology and Microcirculation</i> , 2017, 65, 93-101.	1.7	6
58	Photoâ€”Decomposable Subâ€”Micrometer Albumin Particles Crossâ€”Linked by <i>ortho</i>â€”Nitrobenzyl Derivatives. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1700413.	2.2	6
59	Micromechanical Properties of Newly Developed Polyelectrolyte Microcapsules (PEMC). , 2005, , 205-216.		5
60	Fabrication and Characterization of Human Serum Albumin Particles Loaded with Non-Sericin Extract Obtained from Silk Cocoon as a Carrier System for Hydrophobic Substances. <i>Polymers</i> , 2021, 13, 334.	4.5	4
61	Non-Destructive Mechanical Testing of Allograft Bone-Implants by Analytic Centrifugation. <i>Experimental Mechanics</i> , 2016, 56, 1653-1660.	2.0	3
62	Electrophoretic fingerprinting and multiparameter analysis of cells and particles. <i>Electrophoresis</i> , 1996, 17, 507-511.	2.4	2
63	Physical attachment of fluorescent protein particles to atomic force microscopy probes in aqueous media: Implications for surface pH, fluorescence, and mechanical properties studies. <i>Microscopy Research and Technique</i> , 2010, 73, 746-751.	2.2	2
64	Measurement Conditions for Flow Cytometry Analyses of Cell Lines from Urological Carcinomas. <i>Journal of Fluorescence</i> , 2010, 20, 779-786.	2.5	2
65	Determination of Methemoglobin in Hemoglobin Submicron Particles Using NMR Relaxometry. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8978.	4.1	2
66	Detection of CD33 expression on monocyte surface is influenced by phagocytosis and temperature. <i>General Physiology and Biophysics</i> , 2019, 38, 369-378.	0.9	1
67	Hollow Polymer Shells from Biological Templates: Fabrication and Potential Applications. , 2002, 8, 5481.		1
68	Bacterial safety study of the production process of hemoglobin-based oxygen carriers. <i>Beilstein Journal of Nanotechnology</i> , 2022, 13, 114-126.	2.8	1
69	Blood Cells as Carriers for Magnetically Targeted Delivery of Drugs. , 2012, , 387-418.		0