Christoph E Hagemeyer

List of Publications by Year
in descending order

99 papers	5,013 citations	81743 39 h-index	95083 68 g-index
105 all docs	105 docs citations	105 times ranked	6613 citing authors

#	Article	IF	Citations
1	Engineering Multifunctional Capsules through the Assembly of Metalâ€“Phenolic Networks. Angewandte Chemie - International Edition, 2014, 53, 5546-5551.	7.2	781
2	Dissociation of Pentameric to Monomeric C-Reactive Protein on Activated Platelets Localizes Inflammation to Atherosclerotic Plaques. Circulation Research, 2009, 105, 128-137.	2.0	234
3	Conformation-Specific Blockade of the Integrin GPIIb/IIIa. Circulation Research, 2006, 99, 25-33.	2.0	185
4	A Novel Mouse Model of Atherosclerotic Plaque Instability for Drug Testing and Mechanistic/Therapeutic Discoveries Using Gene and MicroRNA Expression Profiling. Circulation Research, 2013, 113, 252-265.	2.0	164
5	Magnetic Resonance Imaging Contrast Agent Targeted Toward Activated Platelets Allows In Vivo Detection of Thrombosis and Monitoring of Thrombolysis. Circulation, 2008, 118, 258-267.	1.6	155
6	Novel Single-Chain Antibody-Targeted Microbubbles for Molecular Ultrasound Imaging of Thrombosis. Circulation, 2012, 125, 3117-3126.	1.6	150
7	Engineering Poly(ethylene glycol) Particles for Improved Biodistribution. ACS Nano, 2015, 9, 1571-1580.	7.3	148
8	Shear-Dependent Platelet Aggregation: Mechanisms and Therapeutic Opportunities. Frontiers in Cardiovascular Medicine, 2019, 6, 141.	1.1	123
9	Thrombus-Targeted Theranostic Microbubbles: A New Technology towards Concurrent Rapid Ultrasound Diagnosis and Bleeding-free Fibrinolytic Treatment of Thrombosis. Theranostics, 2016, 6, 726-738.	4.6	112
10	Engineering Multifunctional Capsules through the Assembly of Metalâ€“Phenolic Networks. Angewandte Chemie, 2014, 126, 5652-5657.	1.6	111
11	Enzymatic Single-Chain Antibody Tagging. Circulation Research, 2011, 109, 365-373.	2.0	90
12	Targeting Ligand-Induced Binding Sites on GPIIb/IIIa via Single-Chain Antibody Allows Effective Anticoagulation Without Bleeding Time Prolongation. Arteriosclerosis, Thrombosis, and Vascular Biology, 2007, 27, 1206-1212.	1.1	82
13	Enzymeâ€Mediated Siteâ€Specific Bioconjugation of Metal Complexes to Proteins: Sortaseâ€Mediated Coupling of Copperâ€64 to a Singleâ€Chain Antibody. Angewandte Chemie - International Edition, 2014, 53, 6115-6119.	7.2	82
14	Molecular imaging of activated platelets via antibody-targeted ultra-small iron oxide nanoparticles displaying unique dual MRI contrast. Biomaterials, 2017, 134, 31-42.	5.7	78
15	A Mechanistic Model for Paradoxical Platelet Activation by Ligand-Mimetic Î±IIbÎ²3(GPIIb/IIIa) Antagonists. Arteriosclerosis, Thrombosis, and Vascular Biology, 2007, 27, e9-15.	1.1	77
16	Single-chain antibodies as diagnostic tools and therapeutic agents. Thrombosis and Haemostasis, 2009, 101, 1012-1019.	1.8	76
17	Towards Effective and Safe Thrombolysis and Thromboprophylaxis. Circulation Research, 2014, 114, 1083-1093.	2.0	76
18	Multifunctional Thrombinâ€Activatable Polymer Capsules for Specific Targeting to Activated Platelets. Advanced Materials, 2015, 27, 5153-5157.	11.1	73

#	Article	IF	Citations
19	Bioâ€Click Chemistry: Enzymatic Functionalization of PEGylated Capsules for Targeting Applications. Angewandte Chemie - International Edition, 2012, 51, 7132-7136.	7.2	72
20	Delayed targeting of CD39 to activated platelet GPIIb/IIIa via a single-chain antibody: breaking the link between antithrombotic potency and bleeding?. Blood, 2013, 121, 3067-3075.	0.6	72
21	Selfâ€Assembled Nanoparticles from Phenolic Derivatives for Cancer Therapy. Advanced Healthcare Materials, 2017, 6, 1700467.	3.9	71
22	Boronateâ€“Phenolic Network Capsules with Dual Response to Acidic pH and cisâ€Diols. Advanced Healthcare Materials, 2015, 4, 1796-1801.	3.9	60
23	HMGB1 binds to activated platelets via the receptor for advanced glycation end products and is present in platelet rich human coronary artery thrombi. Thrombosis and Haemostasis, 2015, 114, 994-1003.	1.8	58
24	Selfâ€Assembled Metalâ€“Phenolic Networks on Emulsions as Lowâ€Fouling and pHâ€Responsive Particles. Small, 2018, 14, e1802342.	5.2	58
25	Nanoporous Metalâ€“Phenolic Particles as Ultrasound Imaging Probes for Hydrogen Peroxide. Advanced Healthcare Materials, 2015, 4, 2170-2175.	3.9	57
26	Triggered and Tunable Hydrogen Sulfide Release from Photogenerated Thiobenzaldehydes. Chemistry - A European Journal, 2017, 23, 11294-11300.	1.7	56
27	Synaptic vesicle protein synaptoporin is differently expressed by subpopulations of mouse hippocampal neurons. Journal of Comparative Neurology, 2002, 452, 139-153.	0.9	53
28	MRI of inducible Pâ€selectin expression in human activated platelets involved in the early stages of atherosclerosis. NMR in Biomedicine, 2011, 24, 413-424.	1.6	53
29	Targeting the Platelet Integrin GPIIb/IIIa. Current Pharmaceutical Design, 2010, 16, 4119-4133.	0.9	52
30	A Versatile Approach for the Siteâ€Specific Modification of Recombinant Antibodies Using a Combination of Enzymeâ€Mediated Bioconjugation and Click Chemistry. Angewandte Chemie - International Edition, 2015, 54, 7515-7519.	7.2	48
31	Testosterone Metabolism In Rat Brain Is Differentially Enhanced By Phenytoin-Inducible Cytochrome P450 Isoforms. Journal of Neuroendocrinology, 2001, 11, 597-604.	1.2	46
32	Predominantly neuronal expression of cytochrome P450 isoforms cyp3a11 and cyp3a13 in mouse brain. Neuroscience, 2003, 117, 521-529.	1.1	46
33	Carbohydrates@MOFs. Materials Horizons, 2019, 6, 969-977.	6.4	46
34	Engineering of Nebulized Metalâ€“Phenolic Capsules for Controlled Pulmonary Deposition. Advanced Science, 2020, 7, 1902650.	5.6	46
35	Particle generation, functionalization and sortase Aâ€“mediated modification with targeting of single-chain antibodies for diagnostic and therapeutic use. Nature Protocols, 2015, 10, 90-105.	5.5	45
36	Shearâ€sensitive nanocapsule drug release for siteâ€specific inhibition of occlusive thrombus formation. Journal of Thrombosis and Haemostasis, 2017, 15, 972-982.	1.9	43

#	Article	IF	Citations
37	High-density lipoprotein delivered after myocardial infarction increases cardiac glucose uptake and function in mice. Science Translational Medicine, 2017, 9, .	5.8	43
38	Single-Chain Antibody Conjugated to a Cage Amine Chelator and Labeled with Positron-Emitting Copper-64 for Diagnostic Imaging of Activated Platelets. Molecular Pharmaceutics, 2014, 11, 2855-2863.	2.3	42
39	Versatile Loading of Diverse Cargo into Functional Polymer Capsules. Advanced Science, 2015, 2, 1400007.	5.6	40
40	Highly Sensitive Detection of Minimal Cardiac Ischemia using Positron Emission Tomography Imaging of Activated Platelets. Scientific Reports, 2016, 6, 38161.	1.6	39
41	Cobalt-Directed Assembly of Antibodies onto Metalâ€“Phenolic Networks for Enhanced Particle Targeting. Nano Letters, 2020, 20, 2660-2666.	4.5	39
42	Recent advances in molecular imaging of atherosclerotic plaques and thrombosis. Nanoscale, 2020, 12, 8040-8064.	2.8	38
43	Platelet-Targeted Delivery of Peripheral Blood Mononuclear Cells to the Ischemic Heart Restores Cardiac Function after Ischemia-Reperfusion Injury. Theranostics, 2017, 7, 3192-3206.	4.6	36
44	Targeted Antithrombotic Protein Micelles. Angewandte Chemie - International Edition, 2015, 54, 1461-1465.	7.2	35
45	GPVI and GPIbÎ± Mediate Staphylococcal Superantigen-Like Protein 5 (SSL5) Induced Platelet Activation and Direct toward Glycans as Potential Inhibitors. PLoS ONE, 2011, 6, e19190.	1.1	34
46	Single-chain antibodies as diagnostic tools and therapeutic agents. Thrombosis and Haemostasis, 2009, 101, 1012-9.	1.8	33
47	Ligand-Functionalized Poly(ethylene glycol) Particles for Tumor Targeting and Intracellular Uptake. Biomacromolecules, 2019, 20, 3592-3600.	2.6	31
48	Low-Fouling and Biodegradable Protein-Based Particles for Thrombus Imaging. ACS Nano, 2018, 12, 6988-6996.	7.3	30
49	Anti-epileptic drug phenytoin enhances androgen metabolism and androgen receptor expression in murine hippocampus. Journal of Neurochemistry, 2006, 96, 460-472.	2.1	29
50	Polymer Capsules for Plaqueâ€Targeted In Vivo Delivery. Advanced Materials, 2016, 28, 7703-7707.	11.1	29
51	Development and validation of a high throughput whole blood thrombolysis plate assay. Scientific Reports, 2017, 7, 2346.	1.6	27
52	Enzymatic Antibody Tagging: Toward a Universal Biocompatible Targeting Tool. Trends in Cardiovascular Medicine, 2012, 22, 105-111.	2.3	25
53	7-Benzyloxyresorufin-O-dealkylase activity as a marker for measuring cytochrome P450 CYP3A induction in mouse liver. Analytical Biochemistry, 2010, 398, 104-111.	1.1	24
54	Immuno-magnetoliposomes targeting activated platelets as a potentially human-compatible MRI contrast agent for targeting atherothrombosis. Biomaterials, 2015, 53, 137-148.	5.7	24

#	Article	IF	Citations
55	Activated Platelets in Carotid Artery Thrombosis in Mice Can Be Selectively Targeted with a Radiolabeled Single-Chain Antibody. PLoS ONE, 2011, 6, e18446.	1.1	24
56	Construction and characterization of a recombinant plasminogen activator composed of an anti-fibrin single-chain antibody and low-molecular-weight urokinase. Journal of Thrombosis and Haemostasis, 2004, 2, 797-803.	1.9	23
57	Functional Brush Poly(2â€ethylâ€2â€oxazine)s: Synthesis by CROP and RAFT, Thermoresponsiveness and Grafting onto Iron Oxide Nanoparticles. Macromolecular Rapid Communications, 2019, 40, e1800911.	2.0	23
58	Platelet-targeted dual pathway antithrombotic inhibits thrombosis with preserved hemostasis. JCI Insight, 2018, 3, .	2.3	23
59	Selfâ€Assembly of Oriented Antibodyâ€Decorated Metalâ€“Organic Framework Nanocrystals for Activeâ€Targeting Applications. Advanced Materials, 2022, 34, e2106607.	11.1	23
60	Ex-vivo thrombolytic gene therapy for vein graft patency: The frontier for development of selective, localised therapeutic approaches. Thrombosis and Haemostasis, 2009, 102, 03-04.	1.8	22
61	Novel Thrombolytic Drug Based on Thrombin Cleavable Microplasminogen Coupled to a Singleâ€Chain Antibody Specific for Activated GPIIb/IIIa. Journal of the American Heart Association, 2017, 6, .	1.6	22
62	Fibrin-targeted direct factor Xa inhibition: construction and characterization of a recombinant factor Xa inhibitor composed of an anti-fibrin single-chain antibody and tick anticoagulant peptide. Thrombosis and Haemostasis, 2004, 92, 47-53.	1.8	21
63	Concordant upâ€regulation of cytochrome P450 Cyp3a11, testosterone oxidation and androgen receptor expression in mouse brain after xenobiotic treatment. Journal of Neurochemistry, 2009, 109, 670-681.	2.1	21
64	Detection of activated platelets in a mouse model of carotid artery thrombosis with 18F-labeled single-chain antibodies. Nuclear Medicine and Biology, 2014, 41, 229-237.	0.3	21
65	Oxidative Hydrolysis of Scoparone by Cytochrome P450 CYP2C29 Reveals a Novel Metabolite. Biochemical and Biophysical Research Communications, 2001, 285, 32-39.	1.0	19
66	Applications of Nanotechnology in the Diagnosis and Therapy of Stroke. Seminars in Thrombosis and Hemostasis, 2020, 46, 592-605.	1.5	19
67	Expression and localization of the CYP2B subfamily predominantly in neurones of rat brain. Journal of Neurochemistry, 2001, 76, 332-340.	2.1	18
68	Ferric Chloride-induced Thrombosis Mouse Model on Carotid Artery and Mesentery Vessel. Journal of Visualized Experiments, 2015, , e52838.	0.2	18
69	Molecular Imaging of Activated Platelets Allows the Detection of Pulmonary Embolism with Magnetic Resonance Imaging. Scientific Reports, 2016, 6, 25044.	1.6	18
70	Bioresponsive Polyphenol-Based Nanoparticles as Thrombolytic Drug Carriers. ACS Applied Materials & Interfaces, 2022, 14, 3740-3751.	4.0	17
71	Destination Known: Targeted Drug Delivery in Atherosclerosis and Thrombosis. Drug Development Research, 2013, 74, 460-471.	1.4	16
72	Microlyse: a thrombolytic agent that targets VWF for clearance of microvascular thrombosis. Blood, 2022, 139, 597-607.	0.6	16

#	Article	IF	Citations
73	Single-Chain Antibodies as New Antithrombotic Drugs. Seminars in Thrombosis and Hemostasis, 2007, 33, 185-195.	1.5	15
74	Self-confirming molecular imaging of activated platelets via iron oxide nanoparticles displaying unique dual MRI contrast. Atherosclerosis, 2017, 263, e146.	0.4	14
75	An Activation-Specific Platelet Inhibitor That Can Be Turned On/Off by Medically Used Hypothermia. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 2015-2023.	1.1	13
76	High Affinity Binders to EphA2 Isolated from Abdurin Scaffold Libraries; Characterization, Binding and Tumor Targeting. PLoS ONE, 2015, 10, e0135278.	1.1	13
77	Identification, induction and localization of cytochrome P450s of the 3A-subfamily in mouse brain. Neurotoxicity Research, 2001, 3, 339-349.	1.3	12
78	A clinical trial of non-invasive imaging with an anti-HIV antibody labelled with copper-64 in people living with HIV and uninfected controls. EBioMedicine, 2021, 65, 103252.	2.7	12
79	Theranostic nanoparticles for the management of thrombosis. Theranostics, 2022, 12, 2773-2800.	4.6	12
80	Collagen-Targeted Theranostic Nanosponges for Delivery of the Matrix Metalloproteinase 14 Inhibitor Naphthofluorescein. Chemistry of Materials, 2020, 32, 3707-3714.	3.2	11
81	Psammomys obesus: a Natural Diet-Controlled Model for Diabetes and Cardiovascular Diseases. Current Atherosclerosis Reports, 2018, 20, 46.	2.0	10
82	Site-Specific Glycation and Chemo-enzymatic Antibody Sortagging for the Retargeting of rAAV6 to Inflamed Endothelium. Molecular Therapy - Methods and Clinical Development, 2019, 14, 261-269.	1.8	9
83	Molecular imaging of atrial myopathy: Towards early AF detection and non-invasive disease management. Trends in Cardiovascular Medicine, 2022, 32, 20-31.	2.3	9
84	Collagenâ€Targeted Peptides for Molecular Imaging of Diffuse Cardiac Fibrosis. Journal of the American Heart Association, 2021, 10, e022139.	1.6	8
85	Targeting shear gradient activated von Willebrand factor by the novel single-chain antibody A1 reduces occlusive thrombus formation <i>in vitro</i>. Haematologica, 2021, 106, 2874-2884.	1.7	8
86	Different testosterone metabolism by immortalized embryonic and postnatal hippocampal neurons from C57BL/6 mice: A crucial role for androstenedione. , 2000, 60, 106-115.		7
87	Targeting Nanotechnologies for the Treatment of Thrombosis and Cardiovascular Disease. Seminars in Thrombosis and Hemostasis, 2020, 46, 606-621.	1.5	7
88	Magnetic fibrinolysis: putting the therapeutic wheels in a corkscrew motion. Journal of Thrombosis and Haemostasis, 2018, 16, 615-617.	1.9	6
89	Engineering Antibodies with C-Terminal Sortase-Mediated Modification for Targeted Nanomedicine. Methods in Molecular Biology, 2019, 2033, 67-80.	0.4	5
90	Platelet-targeted thrombolysis for treatment of acute ischemic stroke. Blood Advances, 2023, 7, 561-574.	2.5	5

#	Article	IF	Citations
91	Genetic transfer of fusion proteins effectively inhibits VCAMâ€1â€mediated cell adhesion and transmigration via inhibition of cytoskeletal anchorage. Journal of Cellular and Molecular Medicine, 2010, 14, 290-302.	1.6	4
92	Functionalization of NaGdF₄ nanoparticles with a dibromomaleimide-terminated polymer for MR/optical imaging of thrombosis. Polymer Chemistry, 2020, 11, 1010-1017.	1.9	4
93	Effects of water stably-enriched with oxygen as a novel method of tissue oxygenation on mitochondrial function, and as adjuvant therapy for type 2 diabetes in a randomized placebo-controlled trial. PLoS ONE, 2021, 16, e0254619.	1.1	4
94	Template-Assisted Antibody Assembly: A Versatile Approach for Engineering Functional Antibody Nanoparticles. Chemistry of Materials, 2022, 34, 3694-3704.	3.2	4
95	Nanomedicine in Thrombosis and Hemostasis: The Future of Nanotechnology in Thrombosis and Hemostasis Research and Clinical Applications. Seminars in Thrombosis and Hemostasis, 2020, 46, 521-523.	1.5	3
96	Scanning laser-induced endothelial injury: a standardized and reproducible thrombosis model for intravital microscopy. Scientific Reports, 2022, 12, 3955.	1.6	2
97	Assessment of the epi-pericardial fibrotic substrate by collagen-targeted probes. Scientific Reports, 2022, 12, 5702.	1.6	2
98	18F Site-Specific Labelling of a Single-Chain Antibody against Activated Platelets for the Detection of Acute Thrombosis in Positron Emission Tomography. International Journal of Molecular Sciences, 2022, 23, 6886.	1.8	2
99	Mopping up crystals to keep the blood flowing. EBioMedicine, 2022, 75, 103786.	2.7	0