

Seraphine Wegner

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

2,505
citations

218592

26
h-index

206029

48
g-index

62
all docs

62
docs citations

62
times ranked

3424
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards applications of synthetic cells in nanotechnology. <i>Current Opinion in Chemical Biology</i> , 2022, 68, 102145.	2.8	3
2	Generation and Characterization of a Polyclonal Human Reference Antibody to Measure Anti-Drug Antibody Titers in Patients with Fabry Disease. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2680.	1.8	3
3	The rise of intelligent matter. <i>Nature</i> , 2021, 594, 345-355.	13.7	228
4	Cell to Cell Signaling through Light in Artificial Cell Communities: Glowing Predator Lures Prey. <i>ACS Nano</i> , 2021, 15, 9434-9444.	7.3	44
5	Spatiotemporal Control Over Multicellular Migration Using Green Light Reversible Cell-Cell Interactions. <i>Advanced Biology</i> , 2021, 5, e2000199.	1.4	7
6	Red/Far-Red Light Switchable Cargo Attachment and Release in Bacteria-Driven Microswimmers. <i>Advanced Healthcare Materials</i> , 2020, 9, e1900956.	3.9	30
7	The Importance of Cell-Cell Interaction Dynamics in Bottom-Up Tissue Engineering: Concepts of Colloidal Self-Assembly in the Fabrication of Multicellular Architectures. <i>Nano Letters</i> , 2020, 20, 2257-2263.	4.5	30
8	Multistimuli Sensing Adhesion Unit for the Self-Positioning of Minimal Synthetic Cells. <i>Small</i> , 2020, 16, 2002440.	5.2	5
9	Precise tetrafunctional streptavidin bioconjugates towards multifaceted drug delivery systems. <i>Chemical Communications</i> , 2020, 56, 9858-9861.	2.2	5
10	Blue-Light-Switchable Bacterial Cell-Cell Adhesions Enable the Control of Multicellular Bacterial Communities. <i>ACS Synthetic Biology</i> , 2020, 9, 1169-1180.	1.9	32
11	Bioluminescence-Triggered Photoswitchable Bacterial Adhesions Enable Higher Sensitivity and Dual-Readout Bacterial Biosensors for Mercury. <i>ACS Sensors</i> , 2020, 5, 2205-2210.	4.0	21
12	Orthogonal Blue and Red Light Controlled Cell-Cell Adhesions Enable Sorting-out in Multicellular Structures. <i>ACS Synthetic Biology</i> , 2020, 9, 2076-2086.	1.9	15
13	Controlled division of cell-sized vesicles by low densities of membrane-bound proteins. <i>Nature Communications</i> , 2020, 11, 905.	5.8	143
14	Turning Cell Adhesions ON or OFF with High Spatiotemporal Precision Using the Green Light Responsive Protein CarH. <i>Chemistry - A European Journal</i> , 2020, 26, 9859-9863.	1.7	14
15	Multifunctional streptavidin-biotin conjugates with precise stoichiometries. <i>Chemical Science</i> , 2020, 11, 4422-4429.	3.7	12
16	Light controlled cell-to-cell adhesion and chemical communication in minimal synthetic cells. <i>Chemical Communications</i> , 2019, 55, 9448-9451.	2.2	31
17	Special Issue on Bottom-Up Synthetic Biology. <i>ChemBioChem</i> , 2019, 20, 2533-2534.	1.3	13
18	Responsive Ionogel Surface with Renewable Antibiofouling Properties. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1900395.	2.0	13

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19	Blue Light Switchable Cell-Cell Interactions Provide Reversible and Spatiotemporal Control Towards Bottom-Up Tissue Engineering. <i>Advanced Biology</i> , 2019, 3, e1800310.	3.0	21
20	Cobalt-Cross-Linked, Redox-Responsive Spy Network Protein Hydrogels. <i>ACS Macro Letters</i> , 2019, 8, 773-778.	2.3	20
21	Independent Blue and Red Light Triggered Narcissistic Self-Sorting Self-Assembly of Colloidal Particles. <i>Small</i> , 2019, 15, e1901801.	5.2	18
22	Green light lithography: a general strategy to create active protein and cell micropatterns. <i>Materials Horizons</i> , 2019, 6, 1222-1229.	6.4	15
23	Photo-ECM: A Blue Light Photoswitchable Synthetic Extracellular Matrix Protein for Reversible Control over Cell-Matrix Adhesion. <i>Advanced Biology</i> , 2019, 3, 1800302.	3.0	9
24	Mimicking Adhesion in Minimal Synthetic Cells. <i>Advanced Biology</i> , 2019, 3, e1800333.	3.0	17
25	Bacterial Photolithography: Patterning <i>Escherichia coli</i> Biofilms with High Spatial Control Using Photocleavable Adhesion Molecules. <i>Advanced Biology</i> , 2019, 3, e1800269.	3.0	11
26	Engineering Proteins at Interfaces: From Complementary Characterization to Material Surfaces with Designed Functions. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12626-12648.	7.2	40
27	Engineering von Proteinen an Oberflächen: Von komplementärer Charakterisierung zu Materialoberflächen mit maßgeschneiderten Funktionen. <i>Angewandte Chemie</i> , 2018, 130, 12806-12830.	1.6	3
28	Dynamic blue light-switchable protein patterns on giant unilamellar vesicles. <i>Chemical Communications</i> , 2018, 54, 948-951.	2.2	27
29	The spatial molecular pattern of integrin recognition sites and their immobilization to colloidal nanobeads determine β_2 integrin-dependent platelet activation. <i>Biomaterials</i> , 2018, 167, 107-120.	5.7	12
30	Plasmonic Nanosensors Reveal a Height Dependence of MinDE Protein Oscillations on Membrane Features. <i>Journal of the American Chemical Society</i> , 2018, 140, 17901-17906.	6.6	26
31	Conformational Dynamics of a Single Protein Monitored for 24 h at Video Rate. <i>Nano Letters</i> , 2018, 18, 6633-6637.	4.5	53
32	Light-Guided Motility of a Minimal Synthetic Cell. <i>Nano Letters</i> , 2018, 18, 7268-7274.	4.5	47
33	MaxSynBio: Wege zur Synthese einer Zelle aus nicht lebenden Komponenten. <i>Angewandte Chemie</i> , 2018, 130, 13566-13577.	1.6	27
34	Independent Control over Multiple Cell Types in Space and Time Using Orthogonal Blue and Red Light Switchable Cell Interactions. <i>Advanced Science</i> , 2018, 5, 1800446.	5.6	21
35	Reversible Social Self-Sorting of Colloidal Cell-Mimics with Blue Light Switchable Proteins. <i>ACS Synthetic Biology</i> , 2018, 7, 1817-1824.	1.9	18
36	MaxSynBio: Avenues Towards Creating Cells from the Bottom Up. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13382-13392.	7.2	234

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37	Implementation of Blue Light Switchable Bacterial Adhesion for Design of Biofilms. <i>Bio-protocol</i> , 2018, 8, e2893.	0.2	1
38	Enhanced Biological Activity of BMPs Bound to Surface-Grafted Heparan Sulfate. <i>Advanced Biology</i> , 2017, 1, e1600041.	3.0	24
39	Blue Light Switchable Bacterial Adhesion as a Key Step toward the Design of Biofilms. <i>ACS Synthetic Biology</i> , 2017, 6, 2170-2174.	1.9	45
40	Photocleavable linker for the patterning of bioactive molecules. <i>Scientific Reports</i> , 2016, 5, 18309.	1.6	44
41	Cobalt Cross-Linked Redox-Responsive PEG Hydrogels: From Viscoelastic Liquids to Elastic Solids. <i>Macromolecules</i> , 2016, 49, 4229-4235.	2.2	63
42	Cobalt(III)-Mediated Permanent and Stable Immobilization of Histidine-Tagged Proteins on NTA-Functionalized Surfaces. <i>Chemistry - A European Journal</i> , 2016, 22, 3156-3162.	1.7	39
43	A Genetically Encoded FRET Sensor for Intracellular Heme. <i>ACS Chemical Biology</i> , 2015, 10, 1610-1615.	1.6	65
44	Synthesis of Pyridine Acrylates and Acrylamides and Their Corresponding Pyridinium Ions as Versatile Cross-Linkers for Tunable Hydrogels. <i>Synthesis</i> , 2014, 46, 1243-1253.	1.2	8
45	Dual-Functionalized Nanostructured Biointerfaces by Click Chemistry. <i>Langmuir</i> , 2014, 30, 6897-6905.	1.6	36
46	Molecular mechanism and structure of the <i>Saccharomyces cerevisiae</i> iron regulator Aft2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 4043-4048.	3.3	109
47	Toward Controlling the Formation, Degradation Behavior, and Properties of Hydrogels Synthesized by Aza-Michael Reactions. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 1865-1873.	1.1	18
48	The effect of molar mass and degree of hydroxyethylation on the controlled shielding and deshielding of hydroxyethyl starch-coated polyplexes. <i>Biomaterials</i> , 2013, 34, 2530-2538.	5.7	68
49	Advances in Experimental Cell Biology and Cell-Material Interactions. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2013, , 87-105.	0.3	0
50	Genetically Encoded Copper(I) Reporters with Improved Response for Use in Imaging. <i>Journal of the American Chemical Society</i> , 2013, 135, 3144-3149.	6.6	42
51	Desmosine-Inspired Cross-Linkers for Hyaluronan Hydrogels. <i>Scientific Reports</i> , 2013, 3, 2043.	1.6	13
52	Cobalt(III) as a Stable and Inert Mediator Ion between NTA and His6-Tagged Proteins. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 7593-7596.	7.2	90
53	The tightly regulated copper window in yeast. <i>Chemical Communications</i> , 2011, 47, 2571-2573.	2.2	70
54	Selective Recognition of Americium by Peptide-Based Reagents. <i>Inorganic Chemistry</i> , 2011, 50, 7937-7939.	1.9	19

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55	Metal-binding properties of Hpn from <i>Helicobacter pylori</i> and implications for the therapeutic activity of bismuth. <i>Chemical Science</i> , 2011, 2, 451-456.	3.7	13
56	Dynamic Copper(I) Imaging in Mammalian Cells with a Genetically Encoded Fluorescent Copper(I) Sensor. <i>Journal of the American Chemical Society</i> , 2010, 132, 2567-2569.	6.6	123
57	Engineering A Uranyl-Specific Binding Protein from NikR. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 2339-2341.	7.2	76
58	Design of an Emission Ratiometric Biosensor from MerR Family Proteins: A Sensitive and Selective Sensor for Hg ²⁺ . <i>Journal of the American Chemical Society</i> , 2007, 129, 3474-3475.	6.6	263