Seraphine Wegner

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Design of an Emission Ratiometric Biosensor from MerR Family Proteins:Â A Sensitive and Selective Sensor for Hg2+. Journal of the American Chemical Society, 2007, 129, 3474-3475. | 6.6 | 263 |
| 2 | MaxSynBio: Avenues Towards Creating Cells from the Bottom Up. Angewandte Chemie - International Edition, 2018, 57, 13382-13392. | 7.2 | 234 |
| 3 | The rise of intelligent matter. Nature, 2021, 594, 345-355. | 13.7 | 228 |
| 4 | Controlled division of cell-sized vesicles by low densities of membrane-bound proteins. Nature Communications, 2020, 11, 905. | 5.8 | 143 |
| 5 | Dynamic Copper(I) Imaging in Mammalian Cells with a Genetically Encoded Fluorescent Copper(I) Sensor. Journal of the American Chemical Society, 2010, 132, 2567-2569. | 6.6 | 123 |
| 6 | Molecular mechanism and structure of the <i>Saccharomyces cerevisiae</i> iron regulator Aft2. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4043-4048. | 3.3 | 109 |
| 7 | Cobalt(III) as a Stable and Inert Mediator Ion between NTA and His6â€Tagged Proteins. Angewandte Chemie - International Edition, 2013, 52, 7593-7596. | 7.2 | 90 |
| 8 | Engineering A Uranyl‣pecific Binding Protein from NikR. Angewandte Chemie - International Edition, 2009, 48, 2339-2341. | 7.2 | 76 |
| 9 | The tightly regulated copper window in yeast. Chemical Communications, 2011, 47, 2571-2573. | 2.2 | 70 |
| 10 | The effect of molar mass and degree of hydroxyethylation on the controlled shielding and deshielding of hydroxyethyl starch-coated polyplexes. Biomaterials, 2013, 34, 2530-2538. | 5.7 | 68 |
| 11 | A Genetically Encoded FRET Sensor for Intracellular Heme. ACS Chemical Biology, 2015, 10, 1610-1615. | 1.6 | 65 |
| 12 | Cobalt Cross-Linked Redox-Responsive PEG Hydrogels: From Viscoelastic Liquids to Elastic Solids. Macromolecules, 2016, 49, 4229-4235. | 2.2 | 63 |
| 13 | Conformational Dynamics of a Single Protein Monitored for 24 h at Video Rate. Nano Letters, 2018, 18, 6633-6637. | 4.5 | 53 |
| 14 | Light-Guided Motility of a Minimal Synthetic Cell. Nano Letters, 2018, 18, 7268-7274. | 4.5 | 47 |
| 15 | Blue Light Switchable Bacterial Adhesion as a Key Step toward the Design of Biofilms. ACS Synthetic Biology, 2017, 6, 2170-2174. | 1.9 | 45 |
| 16 | Photocleavable linker for the patterning of bioactive molecules. Scientific Reports, 2016, 5, 18309. | 1.6 | 44 |
| 17 | Cell to Cell Signaling through Light in Artificial Cell Communities: Glowing Predator Lures Prey. ACS Nano, 2021, 15, 9434-9444 | 7.3 | 44 |
| 18 | Genetically Encoded Copper(I) Reporters with Improved Response for Use in Imaging. Journal of the American Chemical Society, 2013, 135, 3144-3149. | 6.6 | 42 |

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|----|---|-----|-----------|
| 19 | Engineering Proteins at Interfaces: From Complementary Characterization to Material Surfaces with Designed Functions. Angewandte Chemie - International Edition, 2018, 57, 12626-12648. | 7.2 | 40 |
| 20 | Cobalt(III)â€Mediated Permanent and Stable Immobilization of Histidineâ€Tagged Proteins on NTAâ€Functionalized Surfaces. Chemistry - A European Journal, 2016, 22, 3156-3162. | 1.7 | 39 |
| 21 | Dual-Functionalized Nanostructured Biointerfaces by Click Chemistry. Langmuir, 2014, 30, 6897-6905. | 1.6 | 36 |
| 22 | Blue-Light-Switchable Bacterial Cell–Cell Adhesions Enable the Control of Multicellular Bacterial Communities. ACS Synthetic Biology, 2020, 9, 1169-1180. | 1.9 | 32 |
| 23 | Light controlled cell-to-cell adhesion and chemical communication in minimal synthetic cells. Chemical Communications, 2019, 55, 9448-9451. | 2.2 | 31 |
| 24 | Red/Farâ€Red Light Switchable Cargo Attachment and Release in Bacteriaâ€Driven Microswimmers. Advanced Healthcare Materials, 2020, 9, e1900956. | 3.9 | 30 |
| 25 | The Importance of Cell–Cell Interaction Dynamics in Bottom-Up Tissue Engineering: Concepts of Colloidal Self-Assembly in the Fabrication of Multicellular Architectures. Nano Letters, 2020, 20, 2257-2263. | 4.5 | 30 |
| 26 | Dynamic blue light-switchable protein patterns on giant unilamellar vesicles. Chemical Communications, 2018, 54, 948-951. | 2.2 | 27 |
| 27 | MaxSynBio: Wege zur Synthese einer Zelle aus nicht lebenden Komponenten. Angewandte Chemie, 2018, 130, 13566-13577. | 1.6 | 27 |
| 28 | Plasmonic Nanosensors Reveal a Height Dependence of MinDE Protein Oscillations on Membrane Features. Journal of the American Chemical Society, 2018, 140, 17901-17906. | 6.6 | 26 |
| 29 | Enhanced Biological Activity of BMPâ€2 Bound to Surfaceâ€Grafted Heparan Sulfate. Advanced Biology, 2017, 1, e1600041. | 3.0 | 24 |
| 30 | Independent Control over Multiple Cell Types in Space and Time Using Orthogonal Blue and Red Light Switchable Cell Interactions. Advanced Science, 2018, 5, 1800446. | 5.6 | 21 |
| 31 | Blue Light Switchable Cell–Cell Interactions Provide Reversible and Spatiotemporal Control Towards Bottomâ€Up Tissue Engineering. Advanced Biology, 2019, 3, e1800310. | 3.0 | 21 |
| 32 | Bioluminescence-Triggered Photoswitchable Bacterial Adhesions Enable Higher Sensitivity and Dual-Readout Bacterial Biosensors for Mercury. ACS Sensors, 2020, 5, 2205-2210. | 4.0 | 21 |
| 33 | Cobalt-Cross-Linked, Redox-Responsive Spy Network Protein Hydrogels. ACS Macro Letters, 2019, 8, 773-778. | 2.3 | 20 |
| 34 | Selective Recognition of Americium by Peptide-Based Reagents. Inorganic Chemistry, 2011, 50, 7937-7939. | 1.9 | 19 |
| 35 | Toward Controlling the Formation, Degradation Behavior, and Properties of Hydrogels Synthesized by Azaâ€Michael Reactions. Macromolecular Chemistry and Physics, 2013, 214, 1865-1873. | 1.1 | 18 |
| 36 | Reversible Social Self-Sorting of Colloidal Cell-Mimics with Blue Light Switchable Proteins. ACS Synthetic Biology, 2018, 7, 1817-1824. | 1.9 | 18 |

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|----|---|-----|-----------|
| 37 | Independent Blue and Red Light Triggered Narcissistic Selfâ€Sorting Selfâ€Assembly of Colloidal Particles. Small, 2019, 15, e1901801. | 5.2 | 18 |
| 38 | Mimicking Adhesion in Minimal Synthetic Cells. Advanced Biology, 2019, 3, e1800333. | 3.0 | 17 |
| 39 | Green light lithography: a general strategy to create active protein and cell micropatterns. Materials Horizons, 2019, 6, 1222-1229. | 6.4 | 15 |
| 40 | Orthogonal Blue and Red Light Controlled Cell–Cell Adhesions Enable Sorting-out in Multicellular Structures. ACS Synthetic Biology, 2020, 9, 2076-2086. | 1.9 | 15 |
| 41 | Turning Cell Adhesions ON or OFF with High Spatiotemporal Precision Using the Green Light Responsive Protein CarH. Chemistry - A European Journal, 2020, 26, 9859-9863. | 1.7 | 14 |
| 42 | Metal-binding properties of Hpn from Helicobacter pylori and implications for the therapeutic activity of bismuth. Chemical Science, 2011, 2, 451-456. | 3.7 | 13 |
| 43 | Desmosine-Inspired Cross-Linkers for Hyaluronan Hydrogels. Scientific Reports, 2013, 3, 2043. | 1.6 | 13 |
| 44 | Special Issue on Bottomâ€Up Synthetic Biology. ChemBioChem, 2019, 20, 2533-2534. | 1.3 | 13 |
| 45 | Responsive Ionogel Surface with Renewable Antibiofouling Properties. Macromolecular Rapid Communications, 2019, 40, e1900395. | 2.0 | 13 |
| 46 | The spatial molecular pattern of integrin recognition sites and their immobilization to colloidal nanobeads determine α2β1 integrin-dependent platelet activation. Biomaterials, 2018, 167, 107-120. | 5.7 | 12 |
| 47 | Multifunctional streptavidin–biotin conjugates with precise stoichiometries. Chemical Science, 2020, 11, 4422-4429. | 3.7 | 12 |
| 48 | Bacterial Photolithography: Patterning <i>Escherichia coli</i> Biofilms with High Spatial Control Using Photocleavable Adhesion Molecules. Advanced Biology, 2019, 3, e1800269. | 3.0 | 11 |
| 49 | Photoâ€ECM: A Blue Light Photoswitchable Synthetic Extracellular Matrix Protein for Reversible Control over Cell–Matrix Adhesion. Advanced Biology, 2019, 3, 1800302. | 3.0 | 9 |
| 50 | Synthesis of Pyridine Acrylates and Acrylamides and Their Corresponding Pyridinium Ions as Versatile Cross-Linkers for Tunable Hydrogels. Synthesis, 2014, 46, 1243-1253. | 1.2 | 8 |
| 51 | Spatiotemporal Control Over Multicellular Migration Using Green Light Reversible Cell–Cell Interactions. Advanced Biology, 2021, 5, e2000199. | 1.4 | 7 |
| 52 | Multistimuli Sensing Adhesion Unit for the Selfâ€₽ositioning of Minimal Synthetic Cells. Small, 2020, 16, 2002440. | 5.2 | 5 |
| 53 | Precise tetrafunctional streptavidin bioconjugates towards multifaceted drug delivery systems. Chemical Communications, 2020, 56, 9858-9861. | 2.2 | 5 |
| 54 | Engineering von Proteinen an OberflÄ z hen: Von komplementÄ r er Charakterisierung zu MaterialoberflÄ z hen mit maÄŸgeschneiderten Funktionen. Angewandte Chemie, 2018, 130, 12806-12830. | 1.6 | 3 |

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|----|--|-----|-----------|
| 55 | Generation and Characterization of a Polyclonal Human Reference Antibody to Measure Anti-Drug Antibody Titers in Patients with Fabry Disease. International Journal of Molecular Sciences, 2021, 22, 2680. | 1.8 | 3 |
| 56 | Towards applications of synthetic cells in nanotechnology. Current Opinion in Chemical Biology, 2022, 68, 102145. | 2.8 | 3 |
| 57 | Implementation of Blue Light Switchable Bacterial Adhesion for Design of Biofilms. Bio-protocol, 2018, 8, e2893. | 0.2 | 1 |
| 58 | Advances in Experimental Cell Biology and Cell-Material Interactions. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2013, , 87-105. | 0.3 | 0 |