Dennis W P M LÃ¶wik

List of Publications by Year
in descending order

77 papers	3,670 citations	136950 32 h-index	133252 59 g-index
80 all docs	80 docs citations	80 times ranked	5305 citing authors

#	Article	IF	Citations
1	Peptide- and Protein-Based Hydrogels. Chemistry of Materials, 2012, 24, 759-773.	6.7	430
2	Stimulus responsive peptide based materials. Chemical Society Reviews, 2010, 39, 3394.	38.1	284
3	Peptide based amphiphiles. Chemical Society Reviews, 2004, 33, 234-245.	38.1	242
4	Polypeptideâ€“polymer bioconjugates. Chemical Society Reviews, 2010, 39, 329-353.	38.1	240
5	Oppositely Charged Gelatin Nanospheres as Building Blocks for Injectable and Biodegradable Gels. Advanced Materials, 2011, 23, H119-24.	21.0	148
6	â€œClickableâ€•polymersomes. Chemical Communications, 2007, , 3136.	4.1	140
7	A Cell-penetrating Peptide Derived from Human Lactoferrin with Conformation-dependent Uptake Efficiency. Journal of Biological Chemistry, 2009, 284, 36099-36108.	3.4	105
8	Oligo(p-phenylenevinylene)â^'Peptide Conjugates: Synthesis and Self-Assembly in Solution and at the Solidâ^'Liquid Interface. Journal of the American Chemical Society, 2008, 130, 14576-14583.	13.7	100
9	A Highly Ordered Material from Magnetically Aligned Peptide Amphiphile Nanofiber Assemblies. Advanced Materials, 2007, 19, 1191-1195.	21.0	98
10	Molecular tools for the construction of peptide-based materials. Chemical Society Reviews, 2014, 43, 2743.	38.1	95
11	Tuning Secondary Structure and Self-Assembly of Amphiphilic Peptides. Langmuir, 2005, 21, 524-526.	3.5	74
12	Synthesis of Bio-Inspired Hybrid PolymersUsing Peptide Synthesis and Protein Engineering. Advances in Polymer Science, 2006, , 19-52.	0.8	74
13	Peptide-polymer vesicles prepared by atom transfer radical polymerization. Journal of Polymer Science Part A, 2005, 43, 6355-6366.	2.3	70
14	Strain-Promoted Oxidation-Controlled Cyclooctyneâ€“1,2-Quinone Cycloaddition (SPOCQ) for Fast and Activatable Protein Conjugation. Bioconjugate Chemistry, 2015, 26, 257-261.	3.6	67
15	Constrained and UV-activatable cell-penetrating peptides for intracellular delivery of liposomes. Journal of Controlled Release, 2012, 164, 87-94.	9.9	65
16	PSMA-targeting agents for radio- and fluorescence-guided prostate cancer surgery. Theranostics, 2019, 9, 6824-6839.	10.0	56
17	Î²-Sheet Side Chain Polymers Synthesized by Atom-Transfer Radical Polymerization. Biomacromolecules, 2005, 6, 825-831.	5.4	54
18	Stabilization of Peptide Fibrils by Hydrophobic Interaction. Langmuir, 2007, 23, 2058-2063.	3.5	53

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19	Targeting the Urokinase Plasminogen Activator Receptor with Synthetic Self-Assembly Nanoparticles. Bioconjugate Chemistry, 2009, 20, 32-40.	3.6	53
20	A Hybrid Peptide Amphiphile Fiber PEG Hydrogel Matrix for 3D Cell Culture. Advanced Functional Materials, 2019, 29, 1808505.	14.9	47
21	A peptide functionalized nanomotor as an efficient cell penetrating tool. Chemical Communications, 2017, 53, 1088-1091.	4.1	46
22	Effect of the Diacetylene Position on the Chromatic Properties of Polydiacetylenes from Self-Assembled Peptide Amphiphiles. Biomacromolecules, 2010, 11, 1676-1683.	5.4	44
23	Ultrafast and reversible thermochromism of a conjugated polymer material based on the assembly of peptide amphiphiles. Chemical Science, 2014, 5, 4189-4195.	7.4	44
24	Self-Assembly and Polymerization of Diacetylene-Containing Peptide Amphiphiles in Aqueous Solution. Biomacromolecules, 2008, 9, 2727-2734.	5.4	40
25	Tweezers with Different Bite: Increasing the Affinity of Synthetic Receptors by Varying the Hinge Part. Angewandte Chemie - International Edition, 1998, 37, 1846-1850.	13.8	38
26	A Fast and Activatable Crossâ€Linking Strategy for Hydrogel Formation. Advanced Materials, 2015, 27, 1235-1240.	21.0	38
27	Anti-bacterial efficacy via drug-delivery system from layer-by-layer coating for percutaneous dental implant components. Applied Surface Science, 2019, 488, 194-204.	6.1	38
28	Activatable cell-penetrating peptides: 15 years of research. RSC Chemical Biology, 2020, 1, 192-203.	4.1	38
29	Synthesis of Macrocyclic, Triazine-Based Receptor Molecules. European Journal of Organic Chemistry, 2001, 2001, 2825.	2.4	36
30	Synthetic receptors based on peptidosulfonamide peptidomimetics. Tetrahedron Letters, 1996, 37, 8253-8256.	1.4	32
31	Non-covalent stabilization of a Î²-hairpin peptide into liposomes. Organic and Biomolecular Chemistry, 2003, 1, 1827-1829.	2.8	32
32	Solid-phase synthesis ofC-terminally modified peptides. Journal of Peptide Science, 2006, 12, 686-692.	1.4	32
33	Activation of cell-penetrating peptides by disulfide bridge formation of truncated precursors. Chemical Communications, 2014, 50, 415-417.	4.1	32
34	Solid phase synthesis of biohybrid block copolymers. Chemical Communications, 2005, , 602-604.	4.1	31
35	Soft PEGâ€Hydrogels with Independently Tunable Stiffness and RGDSâ€Content for Cell Adhesion Studies. Macromolecular Bioscience, 2015, 15, 1338-1347.	4.1	30
36	Convenient Solid-Phase Synthesis of Ureido-Pyrimidinone Modified Peptides. European Journal of Organic Chemistry, 2007, 2007, 3622-3632.	2.4	27

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37	Coiledâ€Coilâ€Mediated Activation of Oligoarginine Cellâ€Penetrating Peptides. ChemBioChem, 2017, 18, 185-188.	2.6	27
38	Simple and Efficient Solid-Phase Preparation of Azido-peptides. Organic Letters, 2012, 14, 2330-2333.	4.6	26
39	Disassembling peptide-based fibres by switching the hydrophobicâ€“hydrophilic balance. Soft Matter, 2007, 3, 1135.	2.7	25
40	Patterns of Diacetylene-Containing Peptide Amphiphiles Using Polarization Holography. Journal of the American Chemical Society, 2009, 131, 15014-15017.	13.7	25
41	Patterning of Soft Matter across Multiple Length Scales. Advanced Functional Materials, 2016, 26, 2609-2616.	14.9	25
42	Delivery of Various Cargos into Cancer Cells and Tissues via Cell-Penetrating Peptides: A Review of the Last Decade. Pharmaceutics, 2021, 13, 1391.	4.5	25
43	Photosensitizer-based multimodal PSMA-targeting ligands for intraoperative detection of prostate cancer. Theranostics, 2021, 11, 1527-1541.	10.0	25
44	Influence of the Molecular Weight and Charge of Antibiotics on Their Release Kinetics From Gelatin Nanospheres. Macromolecular Bioscience, 2015, 15, 901-911.	4.1	24
45	Enzyme-Activatable Cell-Penetrating Peptides through a Minimal Side Chain Modification. Bioconjugate Chemistry, 2015, 26, 850-856.	3.6	24
46	Constrained cell penetrating peptides. Drug Discovery Today: Technologies, 2017, 26, 33-42.	4.0	23
47	A stepwise synthesis of triazine-based macrocyclic scaffolds. Tetrahedron Letters, 2000, 41, 1837-1840.	1.4	21
48	Synthesis, Aggregation, and Binding Behavior of Synthetic Amphiphilic Receptors. Journal of Organic Chemistry, 2001, 66, 1538-1547.	3.2	20
49	Polymerization-Induced Color Changes of Polydiacetylene-Containing Liposomes and Peptide Amphiphile Fibers. Langmuir, 2012, 28, 2049-2055.	3.5	20
50	Peptide-Containing Block Copolymers: Synthesis and Potential Applications of Bio-Mimetic Materials. Current Organic Chemistry, 2005, 9, 1115-1125.	1.6	19
51	Nanostructured raspberry-like gelatin microspheres for local delivery of multiple biomolecules. Acta Biomaterialia, 2017, 58, 67-79.	8.3	19
52	Comparison of Bioorthogonally Cross-Linked Hydrogels for in Situ Cell Encapsulation. ACS Applied Bio Materials, 2019, 2, 2862-2871.	4.6	19
53	Click to enter: activation of oligo-arginine cell-penetrating peptides by bioorthogonal tetrazine ligations. Chemical Science, 2019, 10, 701-705.	7.4	17
54	Controlled disassembly of peptide amphiphile fibres. Journal of Peptide Science, 2008, 14, 127-133.	1.4	16

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55	Noncovalent synthesis of supramolecular dendritic architectures in water. Journal of Polymer Science Part A, 2005, 43, 6431-6437.	2.3	14
56	The influence of amino acid sequence on structure and morphology of polydiacetylene containing peptide fibres. Soft Matter, 2015, 11, 1335-1344.	2.7	14
57	Mechanical and thermal stabilities of peptide amphiphile fibres. Soft Matter, 2011, 7, 9737.	2.7	13
58	Detection of transglutaminase activity using click chemistry. Amino Acids, 2012, 43, 1251-1263.	2.7	13
59	A Modular and Noncovalent Transduction System for Leucineâ€Zipperâ€Tagged Proteins. ChemBioChem, 2011, 12, 2294-2297.	2.6	11
60	Incorporation of simvastatin in PLLA membranes for guided bone regeneration: effect of thermal treatment on simvastatin release. RSC Advances, 2018, 8, 28546-28554.	3.6	11
61	Synthesis of 6-Hydroxybenzothiazole-2-carboxylic Acid. Synthesis, 2001, 2001, 1780-1783.	2.3	10
62	Sensing cell adhesion using polydiacetylene-containing peptide amphiphile fibres. Journal of Materials Chemistry B, 2015, 3, 2954-2961.	5.8	10
63	Theranostic PSMA ligands with optimized backbones for intraoperative multimodal imaging and photodynamic therapy of prostate cancer. European Journal of Nuclear Medicine and Molecular Imaging, 2022, 49, 2425-2435.	6.4	10
64	Characterization of polyurethane scaffold surface functionalization with diamines and heparin. Journal of Biomedical Materials Research - Part A, 2013, 101A, 919-922.	4.0	9
65	Strain-Promoted Azideâ€“Alkyne Cycloaddition-Based PSMA-Targeting Ligands for Multimodal Intraoperative Tumor Detection of Prostate Cancer. Bioconjugate Chemistry, 2022, 33, 194-205.	3.6	9
66	A structural study of the self-assembly of a palmitoyl peptide amphiphile. Faraday Discussions, 2013, 166, 361.	3.2	8
67	Self-recovering dual cross-linked hydrogels based on bioorthogonal click chemistry and ionic interactions. Journal of Materials Chemistry B, 2020, 8, 5912-5920.	5.8	7
68	Switchable peptides. Drug Discovery Today: Technologies, 2009, 6, e33-e39.	4.0	6
69	Quick-and-easy preparation and purification of quantum dotâ€“loaded liposomes. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	6
70	An integrated, peptide-based approach to site-specific protein immobilization for detection of biomolecular interactions. Analyst, The, 2016, 141, 5321-5328.	3.5	6
71	Synthesis and characterization of poly[(2,6-dimethyl-1,4-phenylene oxide)-block-isoprene] diblock copolymers. Macromolecular Chemistry and Physics, 1997, 198, 379-389.	2.2	5
72	Activation of cell-penetrating peptide fragments by disulfide formation. Amino Acids, 2020, 52, 1161-1168.	2.7	5

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73	Novel anti-PD-L1 peptide selected from combinatorial phage library inhibits tumor cell growth and restores T-cell activity. Journal of Drug Targeting, 2021, 29, 771-782.	4.4	5
74	Luminescent Assay for the Screening of SARSâ€CoVâ€2 M^{Pro} Inhibitors. ChemBioChem, 2022, 23, .	2.6	5
75	Magnetic fields to align natural and synthetic fibers. , 2018, , 321-340.		4
76	Dodging Endosomes: Effective Cytosolic Antibody Delivery. ChemBioChem, 2017, 18, 2196-2198.	2.6	2
77	Functional Nanomaterials using the Cu-Catalyzed Huisgen Cycloaddition Reaction. , 0, , 255-289.		1