

Ulrich LÃ¶schelt

List of Publications by Year in descending order

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57
papers

3,402
citations

218592

26
h-index

155592

55
g-index

60
all docs

60
docs citations

60
times ranked

3809
citing authors

#	ARTICLE	IF	CITATIONS
1	Nucleic Acid Therapeutics Using Polyplexes: A Journey of 50 Years (and Beyond). <i>Chemical Reviews</i> , 2015, 115, 11043-11078.	23.0	495
2	The Current Status of MOF and COF Applications. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 23975-24001.	7.2	450
3	Imparting Functionality to MOF Nanoparticles by External Surface Selective Covalent Attachment of Polymers. <i>Chemistry of Materials</i> , 2016, 28, 3318-3326.	3.2	218
4	Multifunctional Efficiency: Extending the Concept of Atom Economy to Functional Nanomaterials. <i>ACS Nano</i> , 2018, 12, 2094-2105.	7.3	210
5	The Chemistry of Reticular Framework Nanoparticles: MOF, ZIF, and COF Materials. <i>Advanced Functional Materials</i> , 2020, 30, 1909062.	7.8	174
6	Multifunctional Nanoparticles by Coordinative Self-Assembly of His-Tagged Units with Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2017, 139, 2359-2368.	6.6	171
7	Polyplex Evolution: Understanding Biology, Optimizing Performance. <i>Molecular Therapy</i> , 2017, 25, 1476-1490.	3.7	146
8	Toxicity of metal-organic framework nanoparticles: from essential analyses to potential applications. <i>Chemical Society Reviews</i> , 2022, 51, 464-484.	18.7	144
9	Nanosized Multifunctional Polyplexes for Receptor-Mediated siRNA Delivery. <i>ACS Nano</i> , 2012, 6, 5198-5208.	7.3	127
10	Fine-tuning of proton sponges by precise diaminoethanes and histidines in pDNA polyplexes. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014, 10, 35-44.	1.7	116
11	Defined Folate-PEG-siRNA Conjugates for Receptor-specific Gene Silencing. <i>Molecular Therapy - Nucleic Acids</i> , 2012, 1, e7.	2.3	98
12	Coordinative Binding of Polymers to Metal-Organic Framework Nanoparticles for Control of Interactions at the Biointerface. <i>ACS Nano</i> , 2019, 13, 3884-3895.	7.3	73
13	Solid-phase-assisted synthesis of targeting peptide-PEG-oligo(ethane amino)amides for receptor-mediated gene delivery. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 3258.	1.5	65
14	Histidine-rich stabilized polyplexes for cMet-directed tumor-targeted gene transfer. <i>Nanoscale</i> , 2015, 7, 5350-5362.	2.8	61
15	Dual antitumoral potency of EG5 siRNA nanoplexes armed with cytotoxic bifunctional glutamyl-methotrexate targeting ligand. <i>Biomaterials</i> , 2016, 77, 98-110.	5.7	57
16	Augmented glioma-targeted theranostics using multifunctional polymer-coated carbon nanodots. <i>Biomaterials</i> , 2017, 141, 29-39.	5.7	52
17	pH-Reversible Cationic RNase A Conjugates for Enhanced Cellular Delivery and Tumor Cell Killing. <i>Biomacromolecules</i> , 2016, 17, 173-182.	2.6	42
18	Tumoral gene silencing by receptor-targeted combinatorial siRNA polyplexes. <i>Journal of Controlled Release</i> , 2016, 244, 280-291.	4.8	40

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19	Antitumoral Cascade-Targeting Ligand for IL-6 Receptor-Mediated Gene Delivery to Glioma. <i>Molecular Therapy</i> , 2017, 25, 1556-1566.	3.7	40
20	Non-viral delivery of the CRISPR/Cas system: DNA versus RNA versus RNP. <i>Biomaterials Science</i> , 2022, 10, 1166-1192.	2.6	40
21	Combinatorial Optimization of Sequence-Defined Oligo(ethan amino)amides for Folate Receptor-Targeted pDNA and siRNA Delivery. <i>Bioconjugate Chemistry</i> , 2016, 27, 647-659.	1.8	38
22	Reticular Nanoscience: Bottom-Up Assembly Nanotechnology. <i>Journal of the American Chemical Society</i> , 2022, 144, 7531-7550.	6.6	38
23	Dual-Targeted Polyplexes Based on Sequence-Defined Peptide-PEG-Oligoamino Amides. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 464-475.	1.6	34
24	Synthetic Polyglutamylation of Dual-Functional MTX Ligands for Enhanced Combined Cytotoxicity of Poly(I:C) Nanoplexes. <i>Molecular Pharmaceutics</i> , 2014, 11, 2631-2639.	2.3	30
25	Lipo-Oligomer Nanoformulations for Targeted Intracellular Protein Delivery. <i>Biomacromolecules</i> , 2017, 18, 2509-2520.	2.6	28
26	Native chemical ligation for conversion of sequence-defined oligomers into targeted pDNA and siRNA carriers. <i>Journal of Controlled Release</i> , 2014, 180, 42-50.	4.8	27
27	Combining reactive triblock copolymers with functional cross-linkers: A versatile pathway to disulfide stabilized-polyplex libraries and their application as pDNA vaccines. <i>Journal of Controlled Release</i> , 2017, 258, 146-160.	4.8	27
28	Delivery of Cas9/sgRNA Ribonucleoprotein Complexes via Hydroxystearyl Oligoamino Amides. <i>Bioconjugate Chemistry</i> , 2020, 31, 729-742.	1.8	26
29	Controllable Acoustic Mixing of Fluids in Microchannels for the Fabrication of Therapeutic Nanoparticles. <i>Micromachines</i> , 2016, 7, 150.	1.4	25
30	Toward Artificial Immunotoxins: Traceless Reversible Conjugation of RNase A with Receptor Targeting and Endosomal Escape Domains. <i>Molecular Pharmaceutics</i> , 2017, 14, 1439-1449.	2.3	24
31	Combination of sequence-defined oligoaminoamides with transferrin-polycation conjugates for receptor-targeted gene delivery. <i>Journal of Gene Medicine</i> , 2015, 17, 161-172.	1.4	22
32	Minicircle Versus Plasmid DNA Delivery by Receptor-Targeted Polyplexes. <i>Human Gene Therapy</i> , 2017, 28, 862-874.	1.4	21
33	Epidermal growth factor receptor targeted methotrexate and small interfering RNA co-delivery. <i>Journal of Gene Medicine</i> , 2018, 20, e3041.	1.4	20
34	Dynamic mRNA polyplexes benefit from bioreducible cleavage sites for in vitro and in vivo transfer. <i>Journal of Controlled Release</i> , 2021, 339, 27-40.	4.8	20
35	Assessing potential peptide targeting ligands by quantification of cellular adhesion of model nanoparticles under flow conditions. <i>Journal of Controlled Release</i> , 2015, 213, 79-85.	4.8	19
36	Tuning the Morphological Appearance of Iron(III) Fumarate: Impact on Material Characteristics and Biocompatibility. <i>Chemistry of Materials</i> , 2020, 32, 2253-2263.	3.2	19

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37	Der derzeitige Stand von MOF- und COF-Anwendungen. <i>Angewandte Chemie</i> , 2021, 133, 24174-24202.	1.6	18
38	Influence of Defined Hydrophilic Blocks within Oligoaminoamide Copolymers: Compaction versus Shielding of pDNA Nanoparticles. <i>Polymers</i> , 2017, 9, 142.	2.0	17
39	Acid-labile pHMA modification of four-arm oligoaminoamide pDNA polyplexes balances shielding and gene transfer activity in vitro and in vivo. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2016, 105, 85-96.	2.0	16
40	Sequence-Defined Oligoamide Drug Conjugates of Pretubulysin and Methotrexate for Folate Receptor Targeted Cancer Therapy. <i>Macromolecular Bioscience</i> , 2017, 17, 1600520.	2.1	16
41	Supramolecular Assembly of Aminoethylene-Lipopeptide PMO Conjugates into RNA Splice-Switching Nanomicelles. <i>Advanced Functional Materials</i> , 2019, 29, 1906432.	7.8	14
42	Core-Shell Functionalized Zirconium-Pemetrexed Coordination Nanoparticles as Carriers with a High Drug Content. <i>Advanced Therapeutics</i> , 2019, 2, 1900120.	1.6	12
43	Invading target cells: multifunctional polymer conjugates as therapeutic nucleic acid carriers. <i>Frontiers of Chemical Science and Engineering</i> , 2011, 5, 275-286.	2.3	11
44	Multifunctional Cationic PeptoStars as siRNA Carrier: Influence of Architecture and Histidine Modification on Knockdown Potential. <i>Macromolecular Bioscience</i> , 2020, 20, 1900152.	2.1	11
45	Transient Permeabilization of Living Cells: Combining Shear Flow and Acoustofluidic Trapping for the Facilitated Uptake of Molecules. <i>Processes</i> , 2021, 9, 913.	1.3	11
46	Controlling Nanoparticle Formulation: A Low-Budget Prototype for the Automation of a Microfluidic Platform. <i>Processes</i> , 2021, 9, 129.	1.3	8
47	From Artificial Amino Acids to Sequence-Defined Targeted Oligoaminoamides. <i>Methods in Molecular Biology</i> , 2016, 1445, 235-258.	0.4	6
48	Size tunable nanoparticle formation employing droplet fusion by acoustic streaming applied to polyplexes. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 244002.	1.3	5
49	A microfluidic approach for sequential assembly of siRNA polyplexes with a defined structure-activity relationship. , 0, 1, e1.		5
50	Cross-Linkable Polyion Complex Micelles from Polypept(o)ide-Based ABC-Triblock Copolymers for siRNA Delivery. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2100698.	2.0	5
51	Receptor-Targeted Dual pH-Triggered Intracellular Protein Transfer. <i>ACS Biomaterials Science and Engineering</i> , 2024, 10, 99-114.	2.6	3
52	Colloidal nanoparticles as pharmaceutical agents. <i>Frontiers of Nanoscience</i> , 2020, 16, 89-115.	0.3	2
53	Metal-organic Nanopharmaceuticals. <i>Pharmaceutical Nanotechnology</i> , 2020, 8, 163-190.	0.6	2
54	Influences on Cellular Adhesion of Nanoparticles under Blood Flow-Like Conditions. <i>Biophysical Journal</i> , 2014, 106, 210a.	0.2	1

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55	Multifunctional Oligoaminoamides for the Receptor-Specific Delivery of Therapeutic RNA. <i>Methods in Molecular Biology</i> , 2015, 1324, 369-386.	0.4	1
56	Sequence-defined nucleic acid carriers combining distinct modules for complexation, shielding, receptor-targeting and endosomal escape. <i>Journal of Controlled Release</i> , 2015, 213, e106-e107.	4.8	1
57	493. Nonviral Gene Transfer by Sequence-Defined Proton-Sponges with Combined Nucleic Acid Binding and Endosomal Buffering: Balancing Basicities. <i>Molecular Therapy</i> , 2016, 24, S195.	3.7	0