

Francisco Fernandez-Trillo

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

1,938
citations

218592

26
h-index

254106

43
g-index

74
all docs

74
docs citations

74
times ranked

3314
citing authors

#	ARTICLE	IF	CITATIONS
1	Click Chemistry for Drug Delivery Nanosystems. <i>Pharmaceutical Research</i> , 2012, 29, 1-34.	1.7	164
2	Bacteria-instructed synthesis of polymers for self-selective microbial binding and labelling. <i>Nature Materials</i> , 2014, 13, 748-755.	13.3	124
3	Click Chemistry with Polymers, Dendrimers, and Hydrogels for Drug Delivery. <i>Pharmaceutical Research</i> , 2012, 29, 902-921.	1.7	109
4	Helical polymers for biological and medical applications. <i>Nature Reviews Chemistry</i> , 2020, 4, 291-310.	13.8	103
5	Polyion complex (PIC) particles: Preparation and biomedical applications. <i>European Polymer Journal</i> , 2016, 81, 198-215.	2.6	101
6	Fundamentals, achievements and challenges in the electrochemical sensing of pathogens. <i>Analyst</i> , The, 2015, 140, 7116-7128.	1.7	91
7	Elastin-Based Side-Chain Polymers: Improved Synthesis via RAFT and Stimulus Responsive Behavior. <i>Macromolecules</i> , 2007, 40, 6094-6099.	2.2	81
8	In Situ Functionalized Polymers for siRNA Delivery. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7492-7495.	7.2	73
9	Bacteria clustering by polymers induces the expression of quorum-sensing-controlled phenotypes. <i>Nature Chemistry</i> , 2013, 5, 1058-1065.	6.6	67
10	Vesicles in Nature and the Laboratory: Elucidation of Their Biological Properties and Synthesis of Increasingly Complex Synthetic Vesicles. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3142-3160.	7.2	65
11	Lipopolysaccharide structure impacts the entry kinetics of bacterial outer membrane vesicles into host cells. <i>PLoS Pathogens</i> , 2017, 13, e1006760.	2.1	63
12	Reversible Immobilization onto PEG-based Emulsion-templated Porous Polymers by Co-assembly of Stimuli Responsive Polymers. <i>Advanced Materials</i> , 2009, 21, 55-59.	11.1	58
13	Responsive hybrid block co-polymer conjugates of proteins controlled architecture to modulate substrate specificity and solution behaviour. <i>Polymer Chemistry</i> , 2011, 2, 1567.	1.9	52
14	Nanoparticle Transport in Epithelial Cells: Pathway Switching Through Bioconjugation. <i>Small</i> , 2013, 9, 3282-3294.	5.2	50
15	Synthetic polymers for biopharmaceutical delivery. <i>Polymer Chemistry</i> , 2011, 2, 48-59.	1.9	48
16	First Stereoselective Syntheses of (β)-Siphonodiol and (β)-Tetrahydrosiphonodiol, Bioactive Polyacetylenes from Marine Sponges. <i>Journal of Organic Chemistry</i> , 2005, 70, 6346-6352.	1.7	45
17	Fine-tuning the transition temperature of a stimuli-responsive polymer by a simple blending procedure. <i>Chemical Communications</i> , 2008, , 2230.	2.2	43
18	Synthesis of Callyberynes A and B, Polyacetylenic Hydrocarbons from Marine Sponges. <i>Organic Letters</i> , 2003, 5, 3725-3728.	2.4	40

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19	Synthesis of Marine Polyacetylenes Callyberynes A [~] C by Transition-Metal-Catalyzed Cross-Coupling Reactions to sp Centers. <i>Journal of Organic Chemistry</i> , 2006, 71, 2802-2810.	1.7	39
20	Dendritic MRI Contrast Agents: An Efficient Prelabeling Approach Based on CuAAC. <i>Biomacromolecules</i> , 2011, 12, 2902-2907.	2.6	37
21	Synthetic Polymers for Simultaneous Bacterial Sequestration and Quorum Sense Interference. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 9852-9856.	7.2	36
22	Preparation and antimicrobial evaluation of polyion complex (PIC) nanoparticles loaded with polymyxin B. <i>European Polymer Journal</i> , 2017, 87, 478-486.	2.6	33
23	Enzyme-responsive polyion complex (PIC) nanoparticles for the targeted delivery of antimicrobial polymers. <i>Polymer Chemistry</i> , 2016, 7, 2684-2690.	1.9	31
24	Different-Length Hydrazone Activated Polymers for Plasmid DNA Condensation and Cellular Transfection. <i>Biomacromolecules</i> , 2018, 19, 2638-2649.	2.6	28
25	Directed Assembly of Inorganic Polyoxometalate-based Micrometer-scale Tubular Architectures by Using Optical Control. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 12754-12758.	7.2	27
26	Programmable polymer-DNA hydrogels with dual input and multiscale responses. <i>Biomaterials Science</i> , 2014, 2, 203-211.	2.6	27
27	Polymyxin B containing polyion complex (PIC) nanoparticles: Improving the antimicrobial activity by tailoring the degree of polymerisation of the inert component. <i>Scientific Reports</i> , 2017, 7, 9396.	1.6	24
28	Cationic polymer mediated bacterial clustering: Cell-adhesive properties of homo- and copolymers. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 95, 47-62.	2.0	23
29	Dually sensitive dextran-based micelles for methotrexate delivery. <i>RSC Advances</i> , 2017, 7, 14448-14460.	1.7	22
30	In Situ Functionalized Polymers for siRNA Delivery. <i>Angewandte Chemie</i> , 2016, 128, 7618-7621.	1.6	18
31	Dendrimer mediated clustering of bacteria: improved aggregation and evaluation of bacterial response and viability. <i>Biomaterials Science</i> , 2016, 4, 998-1006.	2.6	17
32	A computational study of liposome logic: towards cellular computing from the bottom up. <i>Systems and Synthetic Biology</i> , 2010, 4, 157-179.	1.0	16
33	Programmed assembly of polymer-DNA conjugate nanoparticles with optical readout and sequence-specific activation of biorecognition. <i>Nanoscale</i> , 2014, 6, 2368-2374.	2.8	15
34	Poly(acryloyl hydrazide), a versatile scaffold for the preparation of functional polymers: synthesis and post-polymerisation modification. <i>Polymer Chemistry</i> , 2017, 8, 4576-4584.	1.9	15
35	Polymers for binding of the gram-positive oral pathogen <i>Streptococcus mutans</i> . <i>PLoS ONE</i> , 2017, 12, e0180087.	1.1	15
36	Transformation from Rod-Like to Diamond-Like Micelles by Thermally Induced Nucleation Self-Assembly. <i>Macromolecules</i> , 2021, 54, 5278-5285.	2.2	14

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37	Evaluation of Amino Acids as Chiral Ligands for the Enantiodifferentiation of Carbohydrates by TOCSY NMR. <i>Journal of Organic Chemistry</i> , 2010, 75, 3878-3881.	1.7	13
38	Determining the parameters governing the electrochemical stability of thiols and disulfides self-assembled monolayer on gold electrodes in physiological medium. <i>Journal of Electroanalytical Chemistry</i> , 2018, 819, 51-57.	1.9	12
39	Aggregation of <i>Vibrio cholerae</i> by Cationic Polymers Enhances Quorum Sensing but Overrides Biofilm Dissipation in Response to Autoinduction. <i>ACS Chemical Biology</i> , 2018, 13, 3021-3029.	1.6	12
40	Messenger RNA delivery by hydrazone-activated polymers. <i>MedChemComm</i> , 2019, 10, 1138-1144.	3.5	11
41	Poly(triazolyl methacrylate) glycopolymers as potential targeted unimolecular nanocarriers. <i>Nanoscale</i> , 2019, 11, 21155-21166.	2.8	11
42	Site-Selective and Rewritable Labeling of DNA through Enzymatic, Reversible, and Click Chemistries. <i>ACS Central Science</i> , 2020, 6, 525-534.	5.3	11
43	Vesikel in der Natur und im Labor: die Aufklärung der biologischen Eigenschaften und die Synthese zunehmend komplexer synthetischer Vesikel. <i>Angewandte Chemie</i> , 2017, 129, 3188-3208.	1.6	10
44	Well-defined polymeric vesicles with high stability and modulation of cell uptake by a simple coating protocol. <i>Polymer Chemistry</i> , 2012, 3, 2596.	1.9	9
45	Engineering microbial physiology with synthetic polymers: cationic polymers induce biofilm formation in <i>Vibrio cholerae</i> and downregulate the expression of virulence genes. <i>Chemical Science</i> , 2017, 8, 5291-5298.	3.7	9
46	Structural Determinants of the Stability of Enzyme-Responsive Polyion Complex Nanoparticles Targeting <i>Pseudomonas aeruginosa</i> 's Elastase. <i>ChemNanoMat</i> , 2018, 4, 807-814.	1.5	9
47	Hierarchical Chiral Supramolecular Nanoarchitectonics with Molecular Detection: Helical Structure Controls upon Self-Assembly and Coassembly. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2100690.	2.0	3
48	Phosphate-mediated electrochemical adsorption of cisplatin on gold electrodes. <i>Electrochimica Acta</i> , 2017, 248, 409-415.	2.6	2
49	Titelbild: Directed Assembly of Inorganic Polyoxometalate-based Micrometer-Scale Tubular Architectures by Using Optical Control (<i>Angew. Chem.</i> 51/2012). <i>Angewandte Chemie</i> , 2012, 124, 12799-12799.	1.6	0
50	Titelbild: In Situ Functionalized Polymers for siRNA Delivery (<i>Angew. Chem.</i> 26/2016). <i>Angewandte Chemie</i> , 2016, 128, 7676-7676.	1.6	0
51	Design of Surface-Modified Electrodes for the Electrochemical Adsorption of Platinum-Based Anticancer Drugs. <i>Chemistry of Materials</i> , 2019, 31, 8012-8018.	3.2	0
52	Poly(Boc-acryloyl hydrazide): the importance of temperature and RAFT agent degradation on its preparation. <i>Polymer Chemistry</i> , 2019, 10, 5645-5651.	1.9	0
53	Development of anti-virulence polymers targeting mycobacteria. <i>Access Microbiology</i> , 2019, 1, .	0.2	0
54	Morphologically Tunable Supramolecular Rectangular Microsheet and Microsaw Constructed by Hierarchical Self-Assembly Based on Hydrogen Bonds. <i>Macromolecular Rapid Communications</i> , 0, , 2200368.	2.0	0