Francisco Fernandez-Trillo

List of Publications by Year
in descending order

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	Hierarchical Chiral Supramolecular Nanoarchitectonics with Molecular Detection: Helical Structure Controls upon Selfâ€Assembly and Coassembly. Macromolecular Rapid Communications, 2022, 43, e2100690.	2.0	3
2	Transformation from Rod-Like to Diamond-Like Micelles by Thermally Induced Nucleation Self-Assembly. Macromolecules, 2021, 54, 5278-5285.	2.2	14
3	Helical polymers for biological and medical applications. Nature Reviews Chemistry, 2020, 4, 291-310.	13.8	103
4	Site-Selective and Rewritable Labeling of DNA through Enzymatic, Reversible, and Click Chemistries. ACS Central Science, 2020, 6, 525-534.	5.3	11
5	Design of Surface-Modified Electrodes for the Electrochemical Adsorption of Platinum-Based Anticancer Drugs. Chemistry of Materials, 2019, 31, 8012-8018.	3.2	0
6	Messenger RNA delivery by hydrazone-activated polymers. MedChemComm, 2019, 10, 1138-1144.	3.5	11
7	Poly(triazolyl methacrylate) glycopolymers as potential targeted unimolecular nanocarriers. Nanoscale, 2019, 11, 21155-21166.	2.8	11
8	Poly(Boc-acryloyl hydrazide): the importance of temperature and RAFT agent degradation on its preparation. Polymer Chemistry, 2019, 10, 5645-5651.	1.9	0
9	Development of anti-virulence polymers targeting mycobacteria. Access Microbiology, 2019, 1, .	0.2	0
10	Structural Determinants of the Stability of Enzymeâ€Responsive Polyion Complex Nanoparticles Targeting Pseudomonas aeruginosaâ€™s Elastase. ChemNanoMat, 2018, 4, 807-814.	1.5	9
11	Different-Length Hydrazone Activated Polymers for Plasmid DNA Condensation and Cellular Transfection. Biomacromolecules, 2018, 19, 2638-2649.	2.6	28
12	Determining the parameters governing the electrochemical stability of thiols and disulfides self-assembled monolayer on gold electrodes in physiological medium. Journal of Electroanalytical Chemistry, 2018, 819, 51-57.	1.9	12
13	Aggregation of Vibrio cholerae by Cationic Polymers Enhances Quorum Sensing but Overrides Biofilm Dissipation in Response to Autoinduction. ACS Chemical Biology, 2018, 13, 3021-3029.	1.6	12
14	Vesikel in der Natur und im Labor: die AufklÃrung der biologischen Eigenschaften und die Synthese zunehmend komplexer synthetischer Vesikel. Angewandte Chemie, 2017, 129, 3188-3208.	1.6	10
15	Dually sensitive dextran-based micelles for methotrexate delivery. RSC Advances, 2017, 7, 14448-14460.	1.7	22
16	Engineering microbial physiology with synthetic polymers: cationic polymers induce biofilm formation inVibrio choleraeand downregulate the expression of virulence genes. Chemical Science, 2017, 8, 5291-5298.	3.7	9
17	Polymyxin B containing polyion complex (PIC) nanoparticles: Improving the antimicrobial activity by tailoring the degree of polymerisation of the inert component. Scientific Reports, 2017, 7, 9396.	1.6	24
18	Poly(acryloyl hydrazide), a versatile scaffold for the preparation of functional polymers: synthesis and post-polymerisation modification. Polymer Chemistry, 2017, 8, 4576-4584.	1.9	15

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19	Preparation and antimicrobial evaluation of polyion complex (PIC) nanoparticles loaded with polymyxin B. European Polymer Journal, 2017, 87, 478-486.	2.6	33
20	Vesicles in Nature and the Laboratory: Elucidation of Their Biological Properties and Synthesis of Increasingly Complex Synthetic Vesicles. Angewandte Chemie - International Edition, 2017, 56, 3142-3160.	7.2	65
21	Polymers for binding of the gram-positive oral pathogen Streptococcus mutans. PLoS ONE, 2017, 12, e0180087.	1.1	15
22	Phosphate-mediated electrochemical adsorption of cisplatin on gold electrodes. Electrochimica Acta, 2017, 248, 409-415.	2.6	2
23	Lipopolysaccharide structure impacts the entry kinetics of bacterial outer membrane vesicles into host cells. PLoS Pathogens, 2017, 13, e1006760.	2.1	63
24	RÃ¼cktitelbild: In Situ Functionalized Polymers for siRNA Delivery (Angew. Chem. 26/2016). Angewandte Chemie, 2016, 128, 7676-7676.	1.6	0
25	In Situ Functionalized Polymers for siRNA Delivery. Angewandte Chemie - International Edition, 2016, 55, 7492-7495.	7.2	73
26	Enzyme-responsive polyion complex (PIC) nanoparticles for the targeted delivery of antimicrobial polymers. Polymer Chemistry, 2016, 7, 2684-2690.	1.9	31
27	Dendrimer mediated clustering of bacteria: improved aggregation and evaluation of bacterial response and viability. Biomaterials Science, 2016, 4, 998-1006.	2.6	17
28	Polyion complex (PIC) particles: Preparation and biomedical applications. European Polymer Journal, 2016, 81, 198-215.	2.6	101
29	In Situ Functionalized Polymers for siRNA Delivery. Angewandte Chemie, 2016, 128, 7618-7621.	1.6	18
30	Cationic polymer mediated bacterial clustering: Cell-adhesive properties of homo- and copolymers. European Journal of Pharmaceutics and Biopharmaceutics, 2015, 95, 47-62.	2.0	23
31	Fundamentals, achievements and challenges in the electrochemical sensing of pathogens. Analyst, The, 2015, 140, 7116-7128.	1.7	91
32	Bacteria-instructed synthesis of polymers for self-selective microbial binding and labelling. Nature Materials, 2014, 13, 748-755.	13.3	124
33	Programmable polymer-DNA hydrogels with dual input and multiscale responses. Biomaterials Science, 2014, 2, 203-211.	2.6	27
34	Programmed assembly of polymerâ€“DNA conjugate nanoparticles with optical readout and sequence-specific activation of biorecognition. Nanoscale, 2014, 6, 2368-2374.	2.8	15
35	Bacteria clustering by polymers induces the expression of quorum-sensing-controlled phenotypes. Nature Chemistry, 2013, 5, 1058-1065.	6.6	67
36	Nanoparticle Transport in Epithelial Cells: Pathway Switching Through Bioconjugation. Small, 2013, 9, 3282-3294.	5.2	50

#	Article	IF	Citations
37	Titelbild: Directed Assembly of Inorganic Polyoxometalate-based Micrometer-Scale Tubular Architectures by Using Optical Control (Angew. Chem. 51/2012). Angewandte Chemie, 2012, 124, 12799-12799.	1.6	0
38	Well-defined polymeric vesicles with high stability and modulation of cell uptake by a simple coating protocol. Polymer Chemistry, 2012, 3, 2596.	1.9	9
39	Directed Assembly of Inorganic Polyoxometalateâ€based Micrometerâ€Scale Tubular Architectures by Using Optical Control. Angewandte Chemie - International Edition, 2012, 51, 12754-12758.	7.2	27
40	Click Chemistry with Polymers, Dendrimers, and Hydrogels for Drug Delivery. Pharmaceutical Research, 2012, 29, 902-921.	1.7	109
41	Click Chemistry for Drug Delivery Nanosystems. Pharmaceutical Research, 2012, 29, 1-34.	1.7	164
42	Dendritic MRI Contrast Agents: An Efficient Prelabeling Approach Based on CuAAC. Biomacromolecules, 2011, 12, 2902-2907.	2.6	37
43	Responsive hybrid block co-polymer conjugates of proteinsâ€“controlled architecture to modulate substrate specificity and solution behaviour. Polymer Chemistry, 2011, 2, 1567.	1.9	52
44	Synthetic polymers for biopharmaceutical delivery. Polymer Chemistry, 2011, 2, 48-59.	1.9	48
45	Synthetic Polymers for Simultaneous Bacterial Sequestration and Quorum Sense Interference. Angewandte Chemie - International Edition, 2011, 50, 9852-9856.	7.2	36
46	A computational study of liposome logic: towards cellular computing from the bottom up. Systems and Synthetic Biology, 2010, 4, 157-179.	1.0	16
47	Evaluation of Amino Acids as Chiral Ligands for the Enantiodifferentiation of Carbohydrates by TOCSY NMR. Journal of Organic Chemistry, 2010, 75, 3878-3881.	1.7	13
48	Reversible Immobilization onto PEGâ€based Emulsionâ€templated Porous Polymers by Coâ€assembly of Stimuli Responsive Polymers. Advanced Materials, 2009, 21, 55-59.	11.1	58
49	Fine-tuning the transition temperature of a stimuli-responsive polymer by a simple blending procedure. Chemical Communications, 2008, , 2230.	2.2	43
50	Elastin-Based Side-Chain Polymers:â€‰ Improved Synthesis via RAFT and Stimulus Responsive Behavior. Macromolecules, 2007, 40, 6094-6099.	2.2	81
51	Synthesis of Marine Polyacetylenes Callyberynes Aâ^'C by Transition-Metal-Catalyzed Cross-Coupling Reactions to sp Centers. Journal of Organic Chemistry, 2006, 71, 2802-2810.	1.7	39
52	First Stereoselective Syntheses of (â^')-Siphonodiol and (â^')-Tetrahydrosiphonodiol, Bioactive Polyacetylenes from Marine Sponges. Journal of Organic Chemistry, 2005, 70, 6346-6352.	1.7	45
53	Synthesis of Callyberynes A and B, Polyacetylenic Hydrocarbons from Marine Sponges. Organic Letters, 2003, 5, 3725-3728.	2.4	40
54	Morphologically Tunable Supramolecular Rectangular Microsheet and Microsaw Constructed by Hierarchical Selfâ€assembly Based on Hydrogen Bonds. Macromolecular Rapid Communications, 0, , 2200368.	2.0	0