

Ivo Nischang

List of Publications by Year in descending order

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73
papers

2,108
citations

236925

25
h-index

254184

43
g-index

77
all docs

77
docs citations

77
times ranked

1748
citing authors

#	ARTICLE	IF	CITATIONS
1	Regaining Potential: Studies Concerning 2-Ferrocenylethyl Methacrylate, Its Polymers, and Application in Redox Flow Batteries. <i>Macromolecules</i> , 2022, 55, 1576-1589.	4.8	6
2	Nanoparticle sizing in the field of nanomedicine: Power of an analytical ultracentrifuge. <i>Analytica Chimica Acta</i> , 2022, 1205, 339741.	5.4	9
3	A Viologen Polymer and a Compact Ferrocene: Comparison of Solution Viscosities and Their Performance in a Redox Flow Battery with a Size Exclusion Membrane. <i>Macromolecular Chemistry and Physics</i> , 2022, 223, .	2.2	7
4	Ethoxy acetalated dextran-based nanocarriers accomplish efficient inhibition of leukotriene formation by a novel FLAP antagonist in human leukocytes and blood. <i>Cellular and Molecular Life Sciences</i> , 2022, 79, 1.	5.4	7
5	Polymer selection impacts the pharmaceutical profile of site-specifically conjugated Interferon- γ 2a. <i>Journal of Controlled Release</i> , 2022, 348, 881-892.	9.9	7
6	Well-defined poly(ethylene glycol) polymers as non-conventional reactive tracers of colloidal transport in porous media. <i>Journal of Colloid and Interface Science</i> , 2021, 584, 592-601.	9.4	6
7	Solely aqueous formulation of hydrophobic cationic polymers for efficient gene delivery. <i>International Journal of Pharmaceutics</i> , 2021, 593, 120080.	5.2	23
8	Overcoming the Necessity of a Lateral Aggregation in the Formation of Supramolecular Polymer Bottlebrushes in Water. <i>Macromolecular Rapid Communications</i> , 2021, 42, 2000585.	3.9	2
9	Characterization of a library of vitamin A-functionalized polymethacrylate-based nanoparticles for siRNA delivery. <i>Polymer Chemistry</i> , 2021, 12, 911-925.	3.9	5
10	Core-crosslinked, temperature- and pH-responsive micelles: design, physicochemical characterization, and gene delivery application. <i>Nanoscale</i> , 2021, 13, 19412-19429.	5.6	8
11	Drug-Induced Dynamics of Bile Colloids. <i>Langmuir</i> , 2021, 37, 2543-2551.	3.5	11
12	Kinetically Controlling the Length of Self-Assembled Polymer Nanofibers Formed by Intermolecular Hydrogen Bonds. <i>ACS Macro Letters</i> , 2021, 10, 837-843.	4.8	6
13	Stealth Effect of Short Polyoxazolines in Graft Copolymers: Minor Changes of Backbone End Group Determine Liver Cell-Type Specificity. <i>ACS Nano</i> , 2021, 15, 12298-12313.	14.6	17
14	Targeted delivery of a phosphoinositide 3-kinase β inhibitor to restore organ function in sepsis. <i>EMBO Molecular Medicine</i> , 2021, 13, e14436.	6.9	14
15	On the identification and quantification of proton-initiated species in the synthesis of poly(2-alkyl-2-oxazoline)s by high resolution liquid chromatography. <i>Journal of Chromatography A</i> , 2021, 1653, 462364.	3.7	3
16	Adjusting the length of supramolecular polymer bottlebrushes by top-down approaches. <i>Beilstein Journal of Organic Chemistry</i> , 2021, 17, 2621-2628.	2.2	3
17	Reincarnation of the Analytical Ultracentrifuge: Emerging Opportunities for Nanomedicine. <i>Analytical Chemistry</i> , 2021, 93, 15805-15815.	6.5	9
18	Mechanical Activation of Terpyridine Metal Complexes in Polymers. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020, 30, 230-242.	3.7	7

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19	Revisiting very disperse macromolecule populations in hydrodynamic and light scattering studies of sodium carboxymethyl celluloses. <i>Carbohydrate Polymers</i> , 2020, 229, 115452.	10.2	13
20	“Hard-Sphere Behavior of “Soft”, Globular-like, Hyperbranched Polyglycerols” Extensive Molecular Hydrodynamic and Light Scattering Studies. <i>Macromolecules</i> , 2020, 53, 9220-9233.	4.8	6
21	Formulation of Liver-Specific PLGA-DY-635 Nanoparticles Loaded with the Protein Kinase C Inhibitor Bisindolylmaleimide I. <i>Pharmaceutics</i> , 2020, 12, 1110.	4.5	6
22	Aqueous Redox Flow Battery Suitable for High Temperature Applications Based on a Tailor-Made Ferrocene Copolymer. <i>Advanced Energy Materials</i> , 2020, 10, 2001825.	19.5	43
23	Unraveling Decisive Structural Parameters for the Self-Assembly of Supramolecular Polymer Bottlebrushes Based on Benzene Trisureas. <i>Macromolecules</i> , 2020, 53, 7552-7560.	4.8	10
24	Salient features of medical nanoparticles in biological fluids from an analytical ultracentrifuge. <i>Nanoscale</i> , 2020, 12, 22462-22466.	5.6	8
25	Impact of amino acids on the aqueous self-assembly of benzenetriptides into supramolecular polymer bottlebrushes. <i>Polymer Chemistry</i> , 2020, 11, 6763-6771.	3.9	9
26	In Situ, Quantitative Assessment of Multifunctional Nanoscale Drug Delivery Systems in Human Serum. <i>Analytical Chemistry</i> , 2020, 92, 7932-7939.	6.5	15
27	Polysaccharide valproates: Structure - property relationships in solution. <i>Carbohydrate Polymers</i> , 2020, 246, 116652.	10.2	12
28	Incentives of Using the Hydrodynamic Invariant and Sedimentation Parameter for the Study of Naturally- and Synthetically-Based Macromolecules in Solution. <i>Polymers</i> , 2020, 12, 277.	4.5	22
29	(2,2,6,6-Tetramethylpiperidin-1-yl)oxyl-Containing Zwitterionic Polymer as Catholyte Species for High-Capacity Aqueous Polymer Redox Flow Batteries. <i>Chemistry of Materials</i> , 2019, 31, 7987-7999.	6.7	64
30	The influence of directed hydrogen bonds on the self-assembly of amphiphilic polymers in water. <i>Journal of Colloid and Interface Science</i> , 2019, 557, 488-497.	9.4	14
31	The influence of gradient and statistical arrangements of guanidinium or primary amine groups in poly(methacrylate) copolymers on their DNA binding affinity. <i>Journal of Materials Chemistry B</i> , 2019, 7, 5920-5929.	5.8	11
32	Tannic Acid-Mediated Aggregate Stabilization of Poly(N-vinylpyrrolidone)-b-poly(oligo (ethylene) Tj ETQq0 0 0 rgBT /Qverlock 10 Tf 50 2	4.1	10
33	POx as an Alternative to PEG? A Hydrodynamic and Light Scattering Study. <i>Macromolecules</i> , 2018, 51, 1905-1916.	4.8	89
34	An aqueous all-organic redox-flow battery employing a (2,2,6,6-tetramethylpiperidin-1-yl)oxyl-containing polymer as catholyte and dimethyl viologen dichloride as anolyte. <i>Journal of Power Sources</i> , 2018, 378, 546-554.	7.8	65
35	Lichtgesteuerte Freisetzung von Chemikalien aus polymeren Nano- und Mikropartikelbehältern. <i>Angewandte Chemie</i> , 2018, 130, 2504-2508.	2.0	3
36	Photocontrolled Release of Chemicals from Nano- and Microparticle Containers. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2479-2482.	13.8	25

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37	Fast Screening of Diol Impurities in Methoxy Poly(Ethylene Glycol)s (mPEG)s by Liquid Chromatography on Monolithic Silica Rods. <i>Polymers</i> , 2018, 10, 1395.	4.5	10
38	“Green” ethers as solvent alternatives for anionic ring-opening polymerizations of ethylene oxide (EO): In-situ kinetic and advanced characterization studies. <i>Polymer</i> , 2018, 159, 86-94.	3.8	10
39	Analytical ultracentrifugation (AUC): a seminal tool offering multiple solutions. <i>European Biophysics Journal</i> , 2018, 47, 693-696.	2.2	4
40	PMMA-g-OEtOx Graft Copolymers: Influence of Grafting Degree and Side Chain Length on the Conformation in Aqueous Solution. <i>Materials</i> , 2018, 11, 528.	2.9	15
41	Hydrodynamic Analysis Resolves the Pharmaceutically-Relevant Absolute Molar Mass and Solution Properties of Synthetic Poly(ethylene glycol)s Created by Varying Initiation Sites. <i>Analytical Chemistry</i> , 2017, 89, 1185-1193.	6.5	34
42	Site-Specific POxylation of Interleukin-4. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 304-312.	5.2	40
43	Gold Nanoparticle@Polyhedral Oligomeric Silsesquioxane Hybrid Scaffolds in Microfluidic Format “Highly Efficient and Green Catalytic Platforms. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 951-955.	2.0	9
44	Porous polymer monoliths: From their fundamental structure to analytical engineering applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 75, 108-117.	11.4	76
45	Radical-mediated step-growth: Preparation of hybrid polymer monolithic columns with fine control of nanostructural and chromatographic characteristics. <i>Journal of Chromatography A</i> , 2015, 1412, 112-125.	3.7	32
46	Critical differences in chromatographic properties of silica- and polymer-based monoliths. <i>Journal of Chromatography A</i> , 2014, 1358, 165-171.	3.7	36
47	Impact of biomolecule solute size on the transport and performance characteristics of analytical porous polymer monoliths. <i>Journal of Chromatography A</i> , 2014, 1354, 56-64.	3.7	13
48	Conceptual Design of Large Surface Area Porous Polymeric Hybrid Media Based on Polyhedral Oligomeric Silsesquioxane Precursors: Preparation, Tailoring of Porous Properties, and Internal Surface Functionalization. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 2517-2526.	8.0	74
49	Porous polymer monoliths: Morphology, porous properties, polymer nanoscale gel structure and their impact on chromatographic performance. <i>Journal of Chromatography A</i> , 2013, 1287, 39-58.	3.7	110
50	Assessing the Nanoscale Structure and Mechanical Properties of Polymer Monoliths used for Chromatography. <i>Analytical Chemistry</i> , 2013, 85, 5645-5649.	6.5	43
51	Tailor-Made Hybrid Organic-Inorganic Porous Materials Based on Polyhedral Oligomeric Silsesquioxanes (POSS) by the Step-Growth Mechanism of Thiol-ene “Click” Chemistry. <i>Chemistry - A European Journal</i> , 2013, 19, 17310-17313.	3.3	100
52	Impact of mobile phase composition on the performance of porous polymeric monoliths in the elution of small molecules. <i>Journal of Chromatography A</i> , 2012, 1263, 108-112.	3.7	22
53	On the chromatographic efficiency of analytical scale column format porous polymer monoliths: Interplay of morphology and nanoscale gel porosity. <i>Journal of Chromatography A</i> , 2012, 1236, 152-163.	3.7	51
54	Multifunctional and biodegradable polyphosphazenes for use as macromolecular anti-cancer drug carriers. <i>Polymer Chemistry</i> , 2011, 2, 828-834.	3.9	46

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55	Porous polymer monoliths for small molecule separations: advancements and limitations. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 2289-2304.	3.7	103
56	Separation of adrenergic amines in <i>Citrus aurantium</i> L. var. <i>amara</i> by capillary electrochromatography using a novel monolithic stationary phase. <i>Journal of Separation Science</i> , 2011, 34, 2301-2304.	2.5	13
57	Facile, Single-Step Preparation of Versatile, High-Surface-Area, Hierarchically Structured Hybrid Materials. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 4592-4596.	13.8	84
58	Advances in the preparation of porous polymer monoliths in capillaries and microfluidic chips with focus on morphological aspects. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 953-960.	3.7	70
59	Towards porous polymer monoliths for the efficient, retention-independent performance in the isocratic separation of small molecules by means of nano-liquid chromatography. <i>Journal of Chromatography A</i> , 2010, 1217, 7514-7522.	3.7	92
60	Electrochromatographic retention of peptides on strong cation-exchange stationary phases. <i>Electrophoresis</i> , 2010, 31, 933-943.	2.4	4
61	On the separation of small molecules by means of nano-liquid chromatography with methacrylate-based macroporous polymer monoliths. <i>Journal of Chromatography A</i> , 2010, 1217, 5389-5397.	3.7	113
62	Application of MEKC and monolithic CEC for the analysis of bioactive naphthoquinones in <i>Eleutherine americana</i> . <i>Electrophoresis</i> , 2009, 30, 3757-3763.	2.4	10
63	Inherent peak compression of charged analytes in electrochromatography. <i>Journal of Separation Science</i> , 2009, 32, 3157-3168.	2.5	5
64	Effect of capillary cross-section geometry and size on the separation of proteins in gradient mode using monolithic poly(butyl methacrylate-co-ethylene dimethacrylate) columns. <i>Journal of Chromatography A</i> , 2009, 1216, 2355-2361.	3.7	47
65	Downscaling Limits and Confinement Effects in the Miniaturization of Porous Polymer Monoliths in Narrow Bore Capillaries. <i>Analytical Chemistry</i> , 2009, 81, 7390-7396.	6.5	52
66	Concentration polarization and nonequilibrium electroosmotic slip in hierarchical monolithic structures. <i>Electrophoresis</i> , 2008, 29, 1140-1151.	2.4	10
67	Concentration Polarization and Nonequilibrium Electroosmotic Slip in Dense Multiparticle Systems. <i>Langmuir</i> , 2007, 23, 9271-9281.	3.5	23
68	Fluid dynamics in capillary and chip electrochromatography. <i>Electrophoresis</i> , 2007, 28, 611-626.	2.4	31
69	Key to Analyte Migration and Retention in Electrochromatography. <i>Analytical Chemistry</i> , 2006, 78, 3601-3608.	6.5	18
70	Electrohydrodynamics in hierarchically structured monolithic and particulate fixed beds. <i>Journal of Chromatography A</i> , 2006, 1109, 32-50.	3.7	47
71	Perspective on concentration polarization effects in electrochromatographic separations. <i>Electrophoresis</i> , 2005, 26, 391-404.	2.4	34
72	Nonlinear electroosmosis in hierarchical monolithic structures. <i>Electrophoresis</i> , 2004, 25, 2935-2945.	2.4	19

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73	Deviceless decoupled electrochemical detection of catecholamines in capillary electrophoresis using gold microband array electrodes. <i>Electrophoresis</i> , 2002, 23, 3678-3682.	2.4	23