Ralf Zimmermann

List of Publications by Year
in descending order

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Version: 2024-02-01

34 papers	1,567 citations	394421 19 h-index	377865 34 g-index
35 all docs	35 docs citations	35 times ranked	1782 citing authors

#	Article	IF	Citations
1	Extended Electrokinetic Characterization of Flat Solid Surfaces. Journal of Colloid and Interface Science, 1998, 208, 329-346.	9.4	259
2	Electrokinetic Measurements Reveal Interfacial Charge at Polymer Films Caused by Simple Electrolyte Ions. Journal of Physical Chemistry B, 2001, 105, 8544-8549.	2.6	219
3	Hydroxide and hydronium ion adsorption â€" A survey. Current Opinion in Colloid and Interface Science, 2010, 15, 196-202.	7.4	209
4	Charging and structure of zwitterionic supported bilayer lipid membranes studied by streaming current measurements, fluorescence microscopy, and attenuated total reflection Fourier transform infrared spectroscopy. Biointerphases, 2009, 4, 1-6.	1.6	70
5	Electrokinetics of Diffuse Soft Interfaces. IV. Analysis of Streaming Current Measurements at Thermoresponsive Thin Films. Langmuir, 2009, 25, 10691-10703.	3.5	63
6	Electrohydrodynamics of Soft Polyelectrolyte Multilayers: Point of Zero-Streaming Current. Langmuir, 2011, 27, 10739-10752.	3.5	56
7	On the use of electrokinetics for unraveling charging and structure of soft planar polymer films. Current Opinion in Colloid and Interface Science, 2013, 18, 83-92.	7.4	53
8	Electrokinetic microslit experiments to analyse the charge formation at solid/liquid interfaces. Microfluidics and Nanofluidics, 2006, 2, 367-379.	2.2	51
9	Interrelations between charging, structure and electrokinetics of nanometric polyelectrolyte films. Journal of Colloid and Interface Science, 2011, 362, 439-449.	9.4	48
10	Electrokinetics of a Poly(N-isopropylacrylamid-co-carboxyacrylamid) Soft Thin Film: Evidence of Diffuse Segment Distribution in the Swollen State. Langmuir, 2010, 26, 18169-18181.	3.5	44
11	Biohybrid Networks of Selectively Desulfated Glycosaminoglycans for Tunable Growth Factor Delivery. Biomacromolecules, 2014, 15, 4439-4446.	5.4	43
12	High resolution bioprinting of multi-component hydrogels. Biofabrication, 2019, 11, 045008.	7.1	42
13	Electrokinetic Characterization of Poly(Acrylic Acid) and Poly(Ethylene Oxide) Brushes in Aqueous Electrolyte Solutions. Langmuir, 2005, 21, 5108-5114.	3.5	39
14	Electrokinetics of soft polymeric interphases with layered distribution of anionic and cationic charges. Current Opinion in Colloid and Interface Science, 2016, 24, 1-12.	7.4	38
15	In situ-forming, cell-instructive hydrogels based on glycosaminoglycans with varied sulfation patterns. Biomaterials, 2018, 181, 227-239.	11.4	38
16	Charging and swelling of cellulose films. Journal of Colloid and Interface Science, 2007, 309, 360-365.	9.4	34
17	Cellâ€Instructive Multiphasic Gelâ€inâ€Gel Materials. Advanced Functional Materials, 2020, 30, 1908857.	14.9	34
18	Fluidity Modulation of Phospholipid Bilayers by Electrolyte Ions: Insights from Fluorescence Microscopy and Microslit Electrokinetic Experiments. Journal of Physical Chemistry A, 2012, 116, 6519-6525.	2.5	29

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19	Electrokinetics as an alternative to neutron reflectivity for evaluation of segment density distribution in PEO brushes. Soft Matter, 2014, 10, 7804-7809.	2.7	24
20	Impact of oral astringent stimuli on surface charge and morphology of the protein-rich pellicle at the toothâ€“saliva interphase. Colloids and Surfaces B: Biointerfaces, 2019, 174, 451-458.	5.0	20
21	Zwitterionic Peptides Reduce Accumulation of Marine and Freshwater Biofilm Formers. ACS Applied Materials & Interfaces, 2021, 13, 49682-49691.	8.0	20
22	Thermodynamic Analysis of the Interaction of Heparin with Lysozyme. Biomacromolecules, 2020, 21, 4615-4625.	5.4	19
23	Evidence of Ion-Pairing in Cationic Brushes from Evaluation of Brush Charging and Structure by Electrokinetic and Surface Conductivity Analysis. Journal of Physical Chemistry C, 2017, 121, 2915-2922.	3.1	16
24	Recent Progress and Perspectives in the Electrokinetic Characterization of Polyelectrolyte Films. Polymers, 2016, 8, 7.	4.5	13
25	Remarkable reversal of electrostatic interaction forces on zwitterionic soft nanointerfaces in a monovalent aqueous electrolyte: an AFM study at the single nanoparticle level. Nanoscale, 2018, 10, 3181-3190.	5.6	13
26	Non-leaching, Highly Biocompatible Nanocellulose Surfaces That Efficiently Resist Fouling by Bacteria in an Artificial Dermis Model. ACS Applied Bio Materials, 2020, 3, 4095-4108.	4.6	12
27	Electrokinetic Analysis to Reveal Composition and Structure of Biohybrid Hydrogels. Analytical Chemistry, 2012, 84, 9592-9595.	6.5	9
28	Impact of Bioactive Peptide Motifs on Molecular Structure, Charging, and Nonfouling Properties of Poly(ethylene oxide) Brushes. Langmuir, 2018, 34, 6010-6020.	3.5	9
29	Polyampholytic Poly(AEMA-co-SPMA) Thin Films and Their Potential for Antifouling Applications. ACS Applied Polymer Materials, 2021, 3, 5361-5372.	4.4	9
30	Layer-by-Layer Assembly of Heparin and Peptide-Polyethylene Glycol Conjugates to Form Hybrid Nanothin Films of Biomatrices. ACS Applied Materials & Interfaces, 2018, 10, 14264-14270.	8.0	8
31	Dehydroabietylamine-Based Cellulose Nanofibril Films: A New Class of Sustainable Biomaterials for Highly Efficient, Broad-Spectrum Antimicrobial Effects. ACS Sustainable Chemistry and Engineering, 2019, 7, 5002-5009.	6.7	8
32	Exploring Structureâ€“Property Relationships of GAGs to Tailor ECM-Mimicking Hydrogels. Polymers, 2018, 10, 1376.	4.5	6
33	On the analysis of ionic surface conduction to unravel charging processes at macroscopic soft and hard solidâ€“liquid interfaces. Current Opinion in Colloid and Interface Science, 2019, 44, 177-187.	7.4	6
34	Quantitative insights into electrostatics and structure of polymer brushes from microslit electrokinetic experiments and advanced modelling of interfacial electrohydrodynamics. Current Opinion in Colloid and Interface Science, 2022, 59, 101590.	7.4	6