Ralf Zimmermann

List of Publications by Year
in descending order

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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	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
2	Polyampholytic Poly(AEMA-co-SPMA) Thin Films and Their Potential for Antifouling Applications. ACS Applied Polymer Materials, 2021, 3, 5361-5372.	4.4	9
3	Zwitterionic Peptides Reduce Accumulation of Marine and Freshwater Biofilm Formers. ACS Applied Materials & Interfaces, 2021, 13, 49682-49691.	8.0	20
4	Thermodynamic Analysis of the Interaction of Heparin with Lysozyme. Biomacromolecules, 2020, 21, 4615-4625.	5.4	19
5	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
6	Cellâ€instructive Multiphasic Gelâ€inâ€Gel Materials. Advanced Functional Materials, 2020, 30, 1908857.	14.9	34
7	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
8	High resolution bioprinting of multi-component hydrogels. Biofabrication, 2019, 11, 045008.	7.1	42
9	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
10	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
11	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
12	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
13	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
14	Exploring Structureâ€“Property Relationships of GAGs to Tailor ECM-Mimicking Hydrogels. Polymers, 2018, 10, 1376.	4.5	6
15	In situ-forming, cell-instructive hydrogels based on glycosaminoglycans with varied sulfation patterns. Biomaterials, 2018, 181, 227-239.	11.4	38
16	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
17	Recent Progress and Perspectives in the Electrokinetic Characterization of Polyelectrolyte Films. Polymers, 2016, 8, 7.	4.5	13
18	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

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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	Biohybrid Networks of Selectively Desulfated Glycosaminoglycans for Tunable Growth Factor Delivery. Biomacromolecules, 2014, 15, 4439-4446.	5.4	43
21	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
22	Electrokinetic Analysis to Reveal Composition and Structure of Biohybrid Hydrogels. Analytical Chemistry, 2012, 84, 9592-9595.	6.5	9
23	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
24	Electrohydrodynamics of Soft Polyelectrolyte Multilayers: Point of Zero-Streaming Current. Langmuir, 2011, 27, 10739-10752.	3.5	56
25	Interrelations between charging, structure and electrokinetics of nanometric polyelectrolyte films. Journal of Colloid and Interface Science, 2011, 362, 439-449.	9.4	48
26	Hydroxide and hydronium ion adsorption â€" A survey. Current Opinion in Colloid and Interface Science, 2010, 15, 196-202.	7.4	209
27	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
28	Electrokinetics of Diffuse Soft Interfaces. IV. Analysis of Streaming Current Measurements at Thermoresponsive Thin Films. Langmuir, 2009, 25, 10691-10703.	3.5	63
29	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
30	Charging and swelling of cellulose films. Journal of Colloid and Interface Science, 2007, 309, 360-365.	9.4	34
31	Electrokinetic microslit experiments to analyse the charge formation at solid/liquid interfaces. Microfluidics and Nanofluidics, 2006, 2, 367-379.	2.2	51
32	Electrokinetic Characterization of Poly(Acrylic Acid) and Poly(Ethylene Oxide) Brushes in Aqueous Electrolyte Solutions. Langmuir, 2005, 21, 5108-5114.	3.5	39
33	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
34	Extended Electrokinetic Characterization of Flat Solid Surfaces. Journal of Colloid and Interface Science, 1998, 208, 329-346.	9.4	259