Ulrich Jonas

List of Publications by Year
in descending order

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124	6,510	57758	69250
papers	citations	44 h-index	77 g-index

131	131	131	8015
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thermal response and thermochromism of methyl red-based copolymer systems â€“ coupled responsiveness in critical solution behaviour and optical absorption properties. Polymer Chemistry, 2022, 13, 1186-1214.	3.9	5
2	Rapid Actuation of Thermo-Responsive Polymer Networks: Investigation of the Transition Kinetics. Journal of Physical Chemistry B, 2022, 126, 3170-3179.	2.6	5
3	Plasmonic nanomaterials with responsive polymer hydrogels for sensing and actuation. Chemical Society Reviews, 2022, 51, 3926-3963.	38.1	48
4	A new ultralow fouling surface for the analysis of human plasma samples with surface plasmon resonance. Talanta, 2021, 221, 121483.	5.5	20
5	Responsive Hydrogel Binding Matrix for Dual Signal Amplification in Fluorescence Affinity Biosensors and Peptide Microarrays. ACS Applied Materials & Interfaces, 2021, 13, 27645-27655.	8.0	14
6	Thermoresponsive polymers as macromolecular coordination ligands: complexation-dependence of thermally induced aggregation in aqueous solution. Polymer Chemistry, 2021, 12, 5598-5612.	3.9	1
7	Antimicrobial Photodynamic Therapy: Latest Developments with a Focus on Combinatory Strategies. Pharmaceutics, 2021, 13, 1995.	4.5	59
8	Self assembling cluster crystals from DNA based dendritic nanostructures. Nature Communications, 2021, 12, 7167.	12.8	19
9	UV-Laser Interference Lithography for Local Functionalization of Plasmonic Nanostructures with Responsive Hydrogel. Journal of Physical Chemistry C, 2020, 124, 3297-3305.	3.1	20
10	Polyolefin-Supported Hydrogels for Selective Cleaning Treatments of Paintings. Gels, 2020, 6, 1.	4.5	10
11	DNA Self-Assembly Mediated by Programmable Soft-Patchy Interactions. ACS Nano, 2020, 14, 13524-13535.	14.6	6
12	Thiol-Substituted Poly(2-oxazoline)s with Photolabile Protecting Groupsâ€”Tandem Network Formation by Light. Polymers, 2020, 12, 1767.	4.5	8
13	Actuated plasmonic nanohole arrays for sensing and optical spectroscopy applications. Nanoscale, 2020, 12, 9756-9768.	5.6	23
14	Shell Architecture Strongly Influences the Glass Transition, Surface Mobility, and Elasticity of Polymer Core-Shell Nanoparticles. Macromolecules, 2019, 52, 5399-5406.	4.8	22
15	Actively Tunable Collective Localized Surface Plasmons by Responsive Hydrogel Membrane. Advanced Optical Materials, 2019, 7, 1900342.	7.3	18
16	Improved Multicellular Response, Biomimetic Mineralization, Angiogenesis, and Reduced Foreign Body Response of Modified Polydioxanone Scaffolds for Skeletal Tissue Regeneration. ACS Applied Materials & Interfaces, 2019, 11, 5834-5850.	8.0	19
17	Interfacial Fourier transform shear rheometry of complex fluid interfaces. Rheologica Acta, 2019, 58, 29-45.	2.4	10
18	Ultrathin Shell Layers Dramatically Influence Polymer Nanoparticle Surface Mobility. Macromolecules, 2018, 51, 8522-8529.	4.8	15

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19	Ruthenium(II) Polypyridyl Complexes as Photosensitizers for Antibacterial Photodynamic Therapy: A Structureâ€“Activity Study on Clinical Bacterial Strains. ChemMedChem, 2018, 13, 2229-2239.	3.2	54
20	Photocrosslinked Dextran-Based Hydrogels as Carrier System for the Cells and Cytokines Induce Bone Regeneration in Critical Size Defects in Mice. Gels, 2018, 4, 63.	4.5	12
21	Plasmonically enhanced fluorescence biosensors actuated by responsive hydrogels. , 2018, , .		0
22	Optical Waveguideâ€Enhanced Diffraction for Observation of Responsive Hydrogel Nanostructures. Macromolecular Chemistry and Physics, 2017, 218, 1600400.	2.2	9
23	Diffusion and Permeation of Labeled IgG in Grafted Hydrogels. Macromolecules, 2017, 50, 4770-4779.	4.8	25
24	Î¹-Carrageenan Enhances the Biomineralization and Osteogenic Differentiation of Electrospun Polyhydroxybutyrate and Polyhydroxybutyrate Valerate Fibers. Biomacromolecules, 2017, 18, 1563-1573.	5.4	68
25	Enhanced Differentiation of Human Preosteoblasts on Electrospun Blend Fiber Mats of Polydioxanone and Anionic Sulfated Polysaccharides. ACS Biomaterials Science and Engineering, 2017, 3, 3447-3458.	5.2	25
26	Free-standing hydrogel-particle composite membrane with dynamically controlled permeability. Biointerphases, 2017, 12, 051002.	1.6	11
27	Reversibly tunable plasmonic bandgap by responsive hydrogel grating. Optics Express, 2016, 24, 2457.	3.4	8
28	Photocrosslinkable polysaccharide hydrogel composites based on dextran or pullulanâ€“amylose blends with cytokines for a human co-culture model of human osteoblasts and endothelial cells. Journal of Materials Chemistry B, 2016, 4, 6552-6564.	5.8	20
29	Tuning the Structure and Rheology of Polystyrene Particles at the Airâ€“Water Interface by Varying the pH. Langmuir, 2016, 32, 6956-6966.	3.5	16
30	Temperature-Controlled Diffusion in PNIPAM-Modified Silica Inverse Opals. ACS Macro Letters, 2016, 5, 190-194.	4.8	17
31	Semifluorinated Alkanes at the Airâ€“Water Interface: Tailoring Structure and Rheology at the Molecular Scale. Langmuir, 2016, 32, 3139-3151.	3.5	13
32	Tunable Plasmonic Nanohole Arrays Actuated by a Thermoresponsive Hydrogel Cushion. Journal of Physical Chemistry C, 2016, 120, 561-568.	3.1	25
33	Hydrogel-Terminated Photonic Crystal for Label-Free Detection of Angiopoietin-1. Journal of Lightwave Technology, 2016, 34, 3641-3645.	4.6	16
34	Advances in Colloidal Assembly: The Design of Structure and Hierarchy in Two and Three Dimensions. Chemical Reviews, 2015, 115, 6265-6311.	47.7	630
35	Photoswitching the mechanical properties in Langmuir layers of semifluorinated alkyl-azobenzenes at the airâ€“water interface. Physical Chemistry Chemical Physics, 2015, 17, 28844-28852.	2.8	15
36	Molecularly Imprinted Polymer Waveguides for Direct Optical Detection of Lowâ€Molecularâ€Weight Analytes. Macromolecular Chemistry and Physics, 2014, 215, 2295-2304.	2.2	11

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37	Bloch surface wave-enhanced fluorescence biosensor. Biosensors and Bioelectronics, 2013, 43, 108-114.	10.1	77
38	Complex Tracer Diffusion Dynamics in Polymer Solutions. Physical Review Letters, 2013, 111, 088301.	7.8	50
39	Biosensor based on hydrogel optical waveguide spectroscopy for the detection of 17Î²-estradiol. Talanta, 2013, 104, 149-154.	5.5	53
40	Hierarchically Structured, Doubleâ€Periodic Inverse Composite Opals. Advanced Functional Materials, 2013, 23, 5381-5389.	14.9	23
41	Active Control of SPR by Thermoresponsive Hydrogels for Biosensor Applications. Journal of Physical Chemistry C, 2013, 117, 11705-11712.	3.1	78
42	Surface-Attached Polymeric Hydrogel Films. , 2013, , 277-359.		0
43	Photocrosslinkable dextran hydrogel films as substrates for osteoblast and endothelial cell growth. Journal of Materials Chemistry, 2012, 22, 19590.	6.7	22
44	Simultaneous Measurement of Mechanical and Surface Properties in Thermoresponsive, Anchored Hydrogel Films. Langmuir, 2012, 28, 12871-12878.	3.5	18
45	Frequency Response of Polymer Films Made from a Precursor Colloidal Monolayer on a Nanomechanical Cantilever. Macromolecules, 2012, 45, 862-871.	4.8	12
46	Thin Hydrogel Films for Optical Biosensor Applications. Membranes, 2012, 2, 40-69.	3.0	141
47	Antibacterial Surface Coatings from Zinc Oxide Nanoparticles Embedded in Poly(Nâ€isopropylacrylamide) Hydrogel Surface Layers. Advanced Functional Materials, 2012, 22, 2376-2386.	14.9	203
48	Magnetic Composite Thin Films of FexOy Nanoparticles and Photocrosslinked Dextran Hydrogels. Journal of Magnetism and Magnetic Materials, 2012, 324, 1488-1497.	2.3	29
49	Probing mobility and structural inhomogeneities in grafted hydrogel films by fluorescence correlation spectroscopy. Soft Matter, 2011, 7, 7042.	2.7	52
50	Effect of the Molecular Structure on the Hierarchical Self-Assembly of Semifluorinated Alkanes at the Air/Water Interface. Langmuir, 2011, 27, 8776-8786.	3.5	28
51	Confined Diffusion in Periodic Porous Nanostructures. ACS Nano, 2011, 5, 4607-4616.	14.6	88
52	Viscoelasticity of semifluorinated alkanes at the air/water interface. Soft Matter, 2011, 7, 7737.	2.7	15
53	Surface Initiated Polymerization on Pulsed Plasma Deposited Polyallylamine: A Polymer Substrateâ€Independent Strategy to Soft Surfaces with Polymer Brushes. Macromolecular Rapid Communications, 2011, 32, 1735-1740.	3.9	29
54	Waferâ€Scale Fabrication of Ordered Binary Colloidal Monolayers with Adjustable Stoichiometries. Advanced Functional Materials, 2011, 21, 3064-3073.	14.9	154

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55	Binary Colloidal Monolayers: Waferâ€Scale Fabrication of Ordered Binary Colloidal Monolayers with Adjustable Stoichiometries (Adv. Funct. Mater. 16/2011). Advanced Functional Materials, 2011, 21, .	14.9	0
56	Hydrogel-supported protein-tethered bilayer lipid membranes: a new approach toward polymer-supported lipid membranes. Soft Matter, 2011, 7, 237-246.	2.7	38
57	Plasmonic biosensor schemes with thermo-responsive hydrogel binding matrix. , 2011, , .		0
58	Enzyme-assisted synthesis and structural characterization of pure benzodiazepine glucuronide epimers. European Journal of Pharmaceutical Sciences, 2010, 39, 233-240.	4.0	4
59	From Fluidic Selfâ€Assembly to Hierarchical Structuresâ€”Superhydrophobic Flexible Interfaces. Angewandte Chemie - International Edition, 2010, 49, 4542-4543.	13.8	12
60	Optical Characterization of Coâ€Nonsolvency Effects in Thin Responsive PNIPAAmâ€Based Gel Layers Exposed to Ethanol/Water Mixtures. Macromolecular Chemistry and Physics, 2010, 211, 1018-1025.	2.2	34
61	Biosensor based on hydrogel optical waveguide spectroscopy. Biosensors and Bioelectronics, 2010, 25, 1663-1668.	10.1	86
62	Molecularly controlled functional architectures. Materials Today, 2010, 13, 46-55.	14.2	18
63	Atomic Force Spectroscopy of Thermoresponsive Photo-Cross-Linked Hydrogel Films. Langmuir, 2010, 26, 7262-7269.	3.5	40
64	Analysis of Optical Gradient Profiles during Temperature- and Salt-Dependent Swelling of Thin Responsive Hydrogel Films. Langmuir, 2010, 26, 12253-12259.	3.5	34
65	Vibrational Eigenfrequencies and Mechanical Properties of Mesoscopic Copolymer Latex Particles. Macromolecules, 2010, 43, 3422-3428.	4.8	14
66	Tracer Diffusion in Silica Inverse Opals. Langmuir, 2010, 26, 10141-10146.	3.5	37
67	The swelling behaviour of thermoresponsive hydrogel/silica nanoparticle composites. Journal of Materials Chemistry, 2010, 20, 4827.	6.7	44
68	Template-free structuring of colloidal hetero-monolayers by inkjet printing and particle floating. Soft Matter, 2010, 6, 2403.	2.7	9
69	Biosensor platform based on surface plasmon-enhanced fluorescence spectroscopy and responsive hydrogel binding matrix. Proceedings of SPIE, 2009, , .	0.8	7
70	Glossar zu Begriffen mit Bezug zu Kinetik, Thermodynamik und Mechanismen von Polymerisationen. Angewandte Chemie, 2009, 121, 9725-9738.	2.0	1
71	Fabrication of Largeâ€Area, Transferable Colloidal Monolayers Utilizing Selfâ€Assembly at the Air/Water Interface. Macromolecular Chemistry and Physics, 2009, 210, 230-241.	2.2	175
72	Optical Waveguide Spectroscopy for the Investigation of Proteinâ€Functionalized Hydrogel Films. Macromolecular Rapid Communications, 2009, 30, 872-877.	3.9	40

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73	Laterally Patterned Ultraflat Surfaces. Small, 2009, 5, 821-825.	10.0	24
74	Parallel Preparation of Densely Packed Arrays of 150â€nm Goldâ€Nanocrescent Resonators in Three Dimensions. Small, 2009, 5, 2105-2110.	10.0	59
75	Polymer-Tethered Bimolecular Lipid Membranes. Advances in Polymer Science, 2009, , 87-111.	0.8	17
76	Tailoring of Poly(ether ether ketone) Surface Properties via Surface-Initiated Atom Transfer Radical Polymerization. Langmuir, 2009, 25, 6214-6220.	3.5	54
77	Prostate Specific Antigen Biosensor Based on Long Range Surface Plasmon-Enhanced Fluorescence Spectroscopy and Dextran Hydrogel Binding Matrix. Analytical Chemistry, 2009, 81, 9625-9632.	6.5	116
78	EPR Spectroscopy Reveals Nanoinhomogeneities in the Structure and Reactivity of Thermoresponsive Hydrogels. Small, 2008, 4, 1485-1493.	10.0	78
79	Polycyanurate Thermoset Networks with High Thermal, Mechanical, and Hydrolytic Stability Based on Liquid Multifunctional Cyanate Ester Monomers with Bisphenol A and AF Units. Macromolecular Chemistry and Physics, 2008, 209, 1673-1685.	2.2	25
80	Singleâ€Photon and Twoâ€Photon Induced Photocleavage for Monolayers of an Alkyltriethoxysilane with a Photoprotected Carboxylic Ester. Advanced Materials, 2008, 20, 4563-4567.	21.0	67
81	Biopolymers for Biosensors: Polypeptide Nanotubes for Optical Biosensing. ACS Symposium Series, 2008, , 371-390.	0.5	4
82	The forces at work in colloidal selfâ€assembly: a review on fundamental interactions between colloidal particles. Asia-Pacific Journal of Chemical Engineering, 2008, 3, 255-268.	1.5	77
83	The â€œMusicâ€•of Coreâ^'Shell Spheres and Hollow Capsules: Influence of the Architecture on the Mechanical Properties at the Nanoscale. Nano Letters, 2008, 8, 3194-3199.	9.1	54
84	Simultaneous Occurrence of Structure-Directed and Particle-Resonance-Induced Phononic Gaps in Colloidal Films. Physical Review Letters, 2008, 100, 194301.	7.8	117
85	Porous Networks Through Colloidal Templates. Topics in Current Chemistry, 2008, 287, 135-180.	4.0	25
86	Dynamics of swollen gel layers anchored to solid surfaces. Soft Matter, 2008, 4, 1443.	2.7	66
87	Structural and optical characterization of 3D binary colloidal crystal and inverse opal films prepared by direct co-deposition. Journal of Materials Chemistry, 2008, 18, 981.	6.7	77
88	Colloidal systems: a promising material class for tailoring sound propagation at high frequencies. Journal of Physics Condensed Matter, 2008, 20, 404203.	1.8	40
89	Automated Preparation Method for Colloidal Crystal Arrays of Monodisperse and Binary Colloid Mixtures by Contact Printing with a Pintool Plotter. Langmuir, 2007, 23, 3478-3484.	3.5	60
90	Responsive Thin Hydrogel Layers from Photo-Cross-Linkable Poly(N-isopropylacrylamide) Terpolymersâ€. Langmuir, 2007, 23, 2231-2238.	3.5	137

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91	From Well-Defined Carbon-Rich Precursors to Monodisperse Carbon Particles with Hierarchic Structures. Advanced Materials, 2007, 19, 1849-1853.	21.0	43
92	Observation and tuning of hypersonic bandgaps in colloidal crystals. Nature Materials, 2006, 5, 830-836.	27.5	252
93	Preparation of Multilayered Trimodal Colloid Crystals and Binary Inverse Opals. Journal of the American Chemical Society, 2006, 128, 15606-15607.	13.7	111
94	Surface Modification with Orthogonal Photosensitive Silanes for Sequential Chemical Lithography and Site-Selective Particle Deposition. Angewandte Chemie - International Edition, 2005, 44, 4707-4712.	13.8	106
95	The spectrum of vibration modes in soft opals. Journal of Chemical Physics, 2005, 123, 121104.	3.0	33
96	Inverse Opals of Polyaniline and Its Copolymers Prepared by Electrochemical Techniques. Chemistry of Materials, 2005, 17, 5726-5730.	6.7	65
97	Extended mesoionic systems: synthesis and characterization of monocyclic, polycyclic and macrocyclic pyrimidinium-olate derivatives and their photochemical behavior. Tetrahedron, 2004, 60, 10011-10018.	1.9	14
98	Addressing the interface in polymer-clay nanocomposites by electron paramagnetic resonance spectroscopy on surfactant probes. Polymer Engineering and Science, 2004, 44, 1112-1121.	3.1	25
99	Polymer Functionalized AFM tips for Long-Term Measurements in Single-Molecule Force Spectroscopy. ChemPhysChem, 2004, 5, 388-393.	2.1	53
100	Parameters Influencing the Templated Growth of Colloidal Crystals on Chemically Patterned Surfaces. Langmuir, 2004, 20, 9114-9123.	3.5	142
101	The Role of Intermolecular and Moleculeâ^'Substrate Interactions in the Stability of Alkanethiol Nonsaturated Phases on Au(111). Journal of the American Chemical Society, 2004, 126, 385-395.	13.7	72
102	Adsorption of polyacrylic acid on self-assembled monolayers investigated by single-molecule force spectroscopy. New Journal of Physics, 2004, 6, 9-9.	2.9	56
103	Influence of Molecular Arrangement in Self-Assembled Monolayers on Adhesion Forces Measured by Chemical Force Microscopy. ChemPhysChem, 2003, 4, 1107-1111.	2.1	18
104	Site-Selective Growth of Colloidal Crystals with Photonic Properties on Chemically Patterned Surfaces. Advanced Materials, 2003, 15, 1025-1028.	21.0	107
105	Colloidal assemblies on patterned silane layers. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 5034-5039.	7.1	111
106	Photopolymerization of Diacetylene Lipid Bilayers and Its Application to the Construction of Micropatterned Biomimetic Membranes. Langmuir, 2002, 18, 4082-4089.	3.5	122
107	Water Induced Dewetting of Ultrathin Polystyrene Films on Hydrophilic Surfaces. Langmuir, 2002, 18, 8056-8061.	3.5	31
108	Synthesis and pH-Selective Adsorption of Latex Particles onto Photolithographically Patterned Silane Layers. Journal of Colloid and Interface Science, 2002, 252, 331-338.	9.4	37

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109	Direct Conversion of EPR Dipolar Time Evolution Data to Distance Distributions. Journal of Magnetic Resonance, 2002, 155, 72-82.	2.1	221
110	The effect of polar, nonpolar, and electrostatic interactions and wetting behavior on the particle assembly at patterned surfaces. Journal of Supramolecular Chemistry, 2002, 2, 255-270.	0.4	25
111	Introduction of [2]Catenanes into Langmuir Films and Langmuirâ^'Blodgett Multilayers. A Possible Strategy for Molecular Information Storage Materials. Langmuir, 2000, 16, 1924-1930.	3.5	76
112	Reversible Color Switching and Unusual Solution Polymerization of Hydrazide-Modified Diacetylene Lipids. Journal of the American Chemical Society, 1999, 121, 4580-4588.	13.7	191
113	Electron beam induced fragmentation of fullerene derivatives. Chemical Physics Letters, 1998, 289, 586-590.	2.6	34
114	Complex Ordering in Thin Films of Di- and Trifunctionalized Hexaalkoxytriphenylene Derivatives. Journal of the American Chemical Society, 1997, 119, 4740-4748.	13.7	32
115	Tetraethynylethene molecular scaffolding: Nonlinear optical, redox, and amphiphilic properties of donor functionalized polytriacetylene and expanded radialenes. Advanced Materials, 1997, 9, 339-343.	21.0	45
116	Synthesis of a Fullerene[60] Cryptate and Systematic Langmuirâ€Blodgett and Thinâ€Film Investigations of Amphiphilic Fullerene Derivatives. Chemistry - A European Journal, 1995, 1, 243-251.	3.3	94
117	Synthesis of a Fullerene Derivative of Benzo[18]crown-6 byDiels-Alder Reaction: Complexation Ability, Amphiphilic Properties, and X-Ray Crystal Structure of a Dimethoxy-1,9-(methano[1,2]benzenomethano)fullerene[60] Benzene Clathrate. Helvetica Chimica Acta, 1993, 76, 2445-2453.	1.6	181
118	Preparation and characterization of fibres from a thermotropic liquid crystal polyester with non-coplanar biphenylene units. Liquid Crystals, 1993, 14, 959-970.	2.2	10
119	C60 and C70 in a Basket?â€“ Investigations of Mono- and Multilayers from Azacrown Compounds and Fullerenes. Angewandte Chemie International Edition in English, 1992, 31, 1599-1602.	4.4	91
120	C₆₀ and C₇₀ im KÃ¶rbchen? â€” Untersuchungen an Monoâ€•und Multischichten aus Azakronenverbindungen und Fullerenen. Angewandte Chemie, 1992, 104, 1683-1686.	2.0	30
121	Cyanate Ester Resins as Thermally Stable Adhesives for PEEK. , 0, , 145-164.		3
122	Colloidal Structures on Patterned Surfaces. , 0, , 970-982.		1
123	Selective Surface Deposition of Colloidal Particles. , 0, , 772-784.		0
124	Modification of Surfaces by Photosensitive Silanes. , 0, , 207-220.		0