

Klaus Huber

List of Publications by Year in descending order

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102
papers

5,174
citations

147801

31
h-index

88630

70
g-index

105
all docs

105
docs citations

105
times ranked

6294
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid Room-Temperature Synthesis and Characterization of Nanocrystals of a Prototypical Zeolitic Imidazolate Framework. <i>Chemistry of Materials</i> , 2009, 21, 1410-1412.	6.7	1,069
2	Controlling Zeolitic Imidazolate Framework Nano- and Microcrystal Formation: Insight into Crystal Growth by Time-Resolved In Situ Static Light Scattering. <i>Chemistry of Materials</i> , 2011, 23, 2130-2141.	6.7	747
3	Trapping Metal-Organic Framework Nanocrystals: An In-Situ Time-Resolved Light Scattering Study on the Crystal Growth of MOF-5 in Solution. <i>Journal of the American Chemical Society</i> , 2007, 129, 5324-5325.	13.7	273
4	Upper Critical Solution Temperature of Poly(<i>N</i> -acryloyl glycinamide) in Water: A Concealed Property. <i>Macromolecules</i> , 2012, 45, 374-384.	4.8	208
5	Fast Nucleation and Growth of ZIF-8 Nanocrystals Monitored by Time-Resolved In Situ Small-Angle and Wide-Angle X-Ray Scattering. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 8067-8071.	13.8	198
6	Lactide Polymerisation with Air-Stable and Highly Active Zinc Complexes with Guanidine-Pyridine Hybrid Ligands. <i>Chemistry - A European Journal</i> , 2009, 15, 2362-2376.	3.3	148
7	Hydrodynamic and thermodynamic behavior of short-chain polystyrene in toluene and cyclohexane at 34.5 degree.C. <i>Macromolecules</i> , 1985, 18, 1461-1467.	4.8	128
8	Nanocrystals of [Cu ₃ (btc) ₂] (HKUST-1): a combined time-resolved light scattering and scanning electron microscopy study. <i>Chemical Communications</i> , 2009, , 1031.	4.1	106
9	Calcium-induced shrinking of polyacrylate chains in aqueous solution. <i>The Journal of Physical Chemistry</i> , 1993, 97, 9825-9830.	2.9	98
10	Dynamic light scattering from regular star-branched molecules. <i>Macromolecules</i> , 1984, 17, 541-548.	4.8	93
11	Ca ²⁺ and Cu ²⁺ Induced Conformational Changes of Sodium Polymethacrylate in Dilute Aqueous Solution. <i>Macromolecules</i> , 1998, 31, 728-733.	4.8	76
12	Calcium Induced Shrinking of NaPA Chains: A SANS Investigation of Single Chain Behavior. <i>Macromolecules</i> , 2003, 36, 9564-9573.	4.8	76
13	[Bis(guanidine)]zinc Complexes and Their Application in Lactide Polymerisation. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 5645-5651.	2.0	73
14	Dilute solution behaviour of sodium polyacrylate chains in aqueous NaCl solutions. <i>Polymer</i> , 2003, 44, 7131-7141.	3.8	68
15	Shift of the photonic band gap in two photonic crystal/liquid crystal composites. <i>Applied Physics Letters</i> , 2002, 80, 1885-1887.	3.3	67
16	The distribution of Sr ²⁺ counterions around polyacrylate chains analyzed by anomalous small-angle X-ray scattering. <i>Europhysics Letters</i> , 2004, 66, 331-337.	2.0	67
17	Structure-Property Relationship in Stimulus-Responsive Bolaamphiphile Hydrogels. <i>Langmuir</i> , 2007, 23, 7715-7723.	3.5	61
18	Evaluation of the Particle Growth of Amorphous Calcium Carbonate in Water by Means of the Porod Invariant from SAXS. <i>Langmuir</i> , 2010, 26, 17405-17412.	3.5	57

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19	A comparative experimental study of the aggregation of Acid Red 266 in aqueous solution by use of ¹⁹ F-NMR, UV/Vis spectroscopy and static light scattering. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 3687-3695.	2.8	52
20	Zeolitic imidazolate framework-71 nanocrystals and a novel SOD-type polymorph: solution mediated phase transformations, phase selection via coordination modulation and a density functional theory derived energy landscape. <i>Dalton Transactions</i> , 2014, 43, 3528.	3.3	52
21	Osmotic second virial coefficient and two-parameter theories. <i>Macromolecules</i> , 1987, 20, 1400-1402.	4.8	47
22	Shrinking of anionic polyacrylate coils induced by Ca ²⁺ , Sr ²⁺ and Ba ²⁺ : A combined light scattering and SAXS study. <i>European Physical Journal E</i> , 2006, 21, 99-110.	1.6	46
23	Controlled Formation of Ag Nanoparticles by Means of Long-Chain Sodium Polyacrylates in Dilute Solution. <i>Journal of the American Chemical Society</i> , 2007, 129, 1089-1094.	13.7	46
24	Probing the extent of the Sr ²⁺ ion condensation to anionic polyacrylate coils: A quantitative anomalous small-angle x-ray scattering study. <i>Journal of Chemical Physics</i> , 2007, 127, 154908.	3.0	42
25	Analysis of the Nucleation and Growth of Amorphous CaCO ₃ by Means of Time-Resolved Static Light Scattering. <i>Langmuir</i> , 2008, 24, 8262-8271.	3.5	42
26	Particle scattering factor of pearl necklace chains. <i>Macromolecular Symposia</i> , 2004, 211, 25-42.	0.7	40
27	Insight into Fast Nucleation and Growth of Zeolitic Imidazolate Framework-71 by In Situ Time-Resolved Light and X-ray Scattering Experiments. <i>Crystal Growth and Design</i> , 2016, 16, 2002-2010.	3.0	38
28	Remarks on A ₂ , hydrodynamic coil expansion, and concentration dependence of the diffusion coefficient for polystyrene in toluene. <i>Macromolecules</i> , 1985, 18, 2743-2747.	4.8	37
29	A Novel Lubricant Based on Covalent Functionalized Graphene Oxide Quantum Dots. <i>Scientific Reports</i> , 2018, 8, 5843.	3.3	34
30	Formation of Ca ²⁺ -Induced Intermediate Necklace Structures of Polyacrylate Chains. <i>Macromolecules</i> , 2009, 42, 4288-4299.	4.8	33
31	Coil-Collapse and Coil-Aggregation due to the Interaction of Cu ²⁺ and Ca ²⁺ Ions with Anionic Polyacrylate Chains in Dilute Solution. <i>Macromolecules</i> , 2010, 43, 3027-3035.	4.8	32
32	Modulated Formation of MOF-5 Nanoparticles – A SANS Analysis. <i>Journal of Physical Chemistry C</i> , 2012, 116, 6127-6135.	3.1	31
33	Lateral association and elongation of vimentin intermediate filament proteins: A time-resolved light-scattering study. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 11152-11157.	7.1	31
34	Characterization of Worm-like Micelles Containing Solubilized Dye-Molecules by Light Scattering Techniques. <i>Journal of Colloid and Interface Science</i> , 1994, 164, 370-381.	9.4	30
35	Self-localization of polyacrylic acid molecules on polar ZnO(0001) Zn surfaces. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 12959.	2.8	30
36	On Protein Folding in Crowded Conditions. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7650-7656.	4.6	29

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37	Coil Dimensions of Polystyrene Chains in Colloid-Polymer Mixtures at the Protein Limit: A SANS Study. <i>Macromolecules</i> , 2005, 38, 9783-9793.	4.8	27
38	Scattering behavior of wormlike star macromolecules. <i>Macromolecules</i> , 1989, 22, 3332-3336.	4.8	26
39	Insight into the Final Step of the Supramolecular Buildup of Eumelanin. <i>Langmuir</i> , 2017, 33, 6895-6901.	3.5	26
40	New experiments for the quantification of counterion condensation. <i>Current Opinion in Colloid and Interface Science</i> , 2012, 17, 64-73.	7.4	25
41	Contraction and Coagulation of Spherical Polyelectrolyte Brushes in the Presence of Ag ⁺ , Mg ²⁺ , and Ca ²⁺ Cations. <i>Macromolecules</i> , 2016, 49, 7460-7468.	4.8	25
42	Mixtures of Polyacrylic Acid and Nonionic Surfactants at the Water/Air Interface. <i>Journal of Colloid and Interface Science</i> , 1994, 164, 463-470.	9.4	24
43	Silsesquioxane Molecules and Polystyrene Chains as a Model System for Colloid-Polymer Mixtures in the Protein Limit. <i>Macromolecules</i> , 2005, 38, 151-159.	4.8	24
44	In situ static and dynamic light scattering and scanning electron microscopy study on the crystallization of the dense zinc imidazolate framework ZIF-zni. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 511-521.	2.8	24
45	Formfactors of Hollow and Massive Rectangular Parallelepipeds at Variable Degree of Anisometry. <i>Zeitschrift Fur Physikalische Chemie</i> , 2012, 226, 837-854.	2.8	23
46	The Molecular Mechanism of Polymer Formation of Farnesylated Human Guanylate-binding Protein 1. <i>Journal of Molecular Biology</i> , 2020, 432, 2164-2185.	4.2	23
47	Small-angle neutron scattering of dilute polystyrene chains at the protein limit of a colloid-polymer mixture. <i>Journal of Chemical Physics</i> , 2005, 123, 014903.	3.0	22
48	SAXS and ASAXS on Dilute Sodium Polyacrylate Chains Decorated with Lead Ions. <i>Macromolecules</i> , 2013, 46, 3570-3580.	4.8	22
49	Time-Resolved Recording of Ionic Dye Aggregation by Static Light Scattering. <i>Langmuir</i> , 2000, 16, 3010-3018.	3.5	21
50	Mechanistic Studies of Silica Polymerization from Supersaturated Aqueous Solutions by Means of Time-Resolved Light Scattering. <i>Langmuir</i> , 2014, 30, 12664-12674.	3.5	21
51	Monitoring the Coordination Modulator Shell at MOF Nanocrystals. <i>Crystal Growth and Design</i> , 2014, 14, 4859-4863.	3.0	21
52	Monte Carlo calculations in comparison to neutron scattering studies: 1. Linear chains. <i>Polymer</i> , 1987, 28, 863-872.	3.8	20
53	Aggregation of a Pseudoisocyanine Chloride in Aqueous NaCl Solution. <i>Langmuir</i> , 2003, 19, 5223-5232.	3.5	19
54	Impact of Sodium Polyacrylate on the Amorphous Calcium Carbonate Formation from Supersaturated Solution. <i>Langmuir</i> , 2012, 28, 3593-3605.	3.5	19

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55	Interactions in mixed interfaces of binary surfactant solutions. <i>Journal of Colloid and Interface Science</i> , 1991, 147, 321-332.	9.4	18
56	Formation of Branched Calixarene Aggregates A Time-Resolved Static Light Scattering Study. <i>Journal of the American Chemical Society</i> , 2004, 126, 9276-9282.	13.7	18
57	Self-Assembly of Fibrinogen in Aqueous, Thrombin-Free Solutions of Variable Ionic Strengths. <i>Langmuir</i> , 2019, 35, 12113-12122.	3.5	18
58	Colloid-polymer mixtures in solution with refractive index matched acrylate colloids. <i>Journal of Colloid and Interface Science</i> , 2004, 279, 447-457.	9.4	16
59	Monte Carlo calculations in comparison to neutron scattering studies: 2. Global dimensions of 12-arm stars. <i>Polymer</i> , 1987, 28, 1990-1996.	3.8	15
60	Monte Carlo calculations in comparison to neutron scattering studies: 3. On the structure of 12-arm star molecules. <i>Polymer</i> , 1987, 28, 1997-2003.	3.8	15
61	Specific Interactions of Ag ⁺ Ions with Anionic Polyacrylate Chains in Dilute Solution. <i>Macromolecules</i> , 2014, 47, 8002-8011.	4.8	14
62	Liquid-liquid phase separation in dilute solutions of poly(styrene sulfonate) with multivalent cations: Phase diagrams, chain morphology, and impact of temperature. <i>Journal of Chemical Physics</i> , 2018, 148, 014901.	3.0	14
63	Time resolved structure analysis of growing β -amyloid fibers. <i>Journal of Structural Biology</i> , 2007, 159, 71-81.	2.8	13
64	Temperature-Induced Collapse of Alkaline Earth Cation-Polyacrylate Anion Complexes. <i>Journal of Physical Chemistry B</i> , 2007, 111, 10431-10437.	2.6	13
65	Effect of ionic strength on the structure and elongational kinetics of vimentin filaments. <i>Soft Matter</i> , 2018, 14, 8445-8454.	2.7	13
66	Hydrogen-Bond-Induced Heteroassembly in Binary Colloidal Systems. <i>Langmuir</i> , 2010, 26, 13815-13822.	3.5	12
67	Co-Aggregation of Two Anionic Azo Dye-stuffs at a Well-Defined Stoichiometry. <i>Journal of Physical Chemistry B</i> , 2013, 117, 8611-8619.	2.6	11
68	Morphology of Blends with Cross-Linked PMMA Microgels and Linear PMMA Chains. <i>Macromolecules</i> , 2013, 46, 9091-9103.	4.8	11
69	Silica Polymerization from Supersaturated Dilute Aqueous Solutions in the Presence of Alkaline Earth Salts. <i>Langmuir</i> , 2017, 33, 6071-6083.	3.5	11
70	Reaction enthalpy from the binding of multivalent cations to anionic polyelectrolytes in dilute solutions. <i>Journal of Chemical Physics</i> , 2018, 148, 114906.	3.0	11
71	Controlling Self-Assembly with Light and Temperature. <i>Langmuir</i> , 2020, 36, 223-231.	3.5	11
72	Static and dynamic scattering from block copolymeric ring molecules. <i>Macromolecules</i> , 1988, 21, 1305-1309.	4.8	10

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73	Conformation and Interactions of Polystyrene and Fullerenes in Dilute to Semidilute Solutions. <i>Macromolecules</i> , 2014, 47, 6113-6120.	4.8	10
74	First cumulant of the dynamic structure factor for rigid rings. <i>Polymer</i> , 1987, 28, 1987-1989.	3.8	9
75	Model of Polydisperse Wormlike Stars and Its Application to Dyestuff Aggregates. <i>Langmuir</i> , 2002, 18, 7049-7056.	3.5	9
76	Metastable metal imidazolates: development of targeted syntheses by combining experimental and theoretical investigations of the formation mechanisms. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2014, 229, 807-822.	0.8	9
77	Block copolymers with rigid and flexible segments. <i>Macromolecules</i> , 1989, 22, 2750-2755.	4.8	8
78	Self-Assembly of Pseudo-Isocyanine Chloride as a Sensor for Macromolecular Crowding In Vitro and In Vivo. <i>Chemistry - A European Journal</i> , 2020, 26, 7041-7050.	3.3	8
79	Multiresponsive Polymer Nanoparticles Based on Disulfide Bonds. <i>Macromolecules</i> , 2021, 54, 2899-2911.	4.8	8
80	The ZIF system zinc(II) 4,5-dichoroimidazolate: theoretical and experimental investigations of the polymorphism and crystallization mechanisms. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2017, 232, 77-90.	0.8	7
81	Secondary Particle Formation during the Nonaqueous Synthesis of Metal Oxide Nanocrystals. <i>Langmuir</i> , 2018, 34, 12834-12844.	3.5	7
82	Polyacrylates in the presence of an extraordinary monovalent cation—Solution behavior and metal nanoparticle formation. <i>Journal of Chemical Physics</i> , 2018, 149, 163318.	3.0	7
83	Insight into Fast Nucleation and Growth of Zeolitic Imidazolate Framework-71 by In Situ Static Light Scattering at Variable Temperature and Kinetic Modeling. <i>Crystal Growth and Design</i> , 2018, 18, 4653-4661.	3.0	7
84	Self-Assembled Fibrinogen Hydro- and Aerogels with Fibrin-like 3D Structures. <i>Biomacromolecules</i> , 2021, 22, 4084-4094.	5.4	7
85	Quasi-elastic scattering by semiflexible rings. <i>Polymer</i> , 1990, 31, 1811-1815.	3.8	6
86	Molecular Recognition with 2,4-Diaminotriazine-Functionalized Colloids. <i>Langmuir</i> , 2011, 27, 12851-12858.	3.5	6
87	Invertible Micelles Based on Ion-Specific Interactions of Sr ²⁺ and Ba ²⁺ with Double Anionic Block Copolyelectrolytes. <i>Macromolecules</i> , 2019, 52, 8759-8770.	4.8	6
88	Contrast variation of micelles composed of Ca ²⁺ and block copolymers of two negatively charged polyelectrolytes. <i>Colloid and Polymer Science</i> , 2020, 298, 663-679.	2.1	6
89	Preparation of Positively and Negatively Charged Organic Colloids from a Single Precursor. <i>Macromolecular Chemistry and Physics</i> , 2003, 204, 2204-2211.	2.2	5
90	Surface modification of epoxy-functionalized acrylate colloids. <i>Polymers for Advanced Technologies</i> , 2005, 16, 38-41.	3.2	5

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91	Ion-selective binding as a new trigger for micellization of block copolyelectrolytes with two anionic blocks. <i>Soft Matter</i> , 2019, 15, 8266-8271.	2.7	5
92	Kinetic and Structural Features of a Dye-stuff Coaggregation Studied by Time-Resolved Static Light Scattering. <i>Journal of Physical Chemistry B</i> , 2013, 117, 15165-15175.	2.6	4
93	Mechanism and equilibrium thermodynamics of H- and J-aggregate formation from pseudo isocyanine chloride in water. <i>Soft Matter</i> , 2021, 17, 8140-8152.	2.7	4
94	Spatial Distribution of Intracellular Ion Concentrations in Aggregate-Forming HeLa Cells Analyzed by XRF Imaging. <i>ChemistryOpen</i> , 2022, 11, e202200024.	1.9	4
95	Coaggregation of Two Anionic Azo Dye-stuffs: A Combined Static Light Scattering and Small-Angle X-ray Scattering Study. <i>Journal of Physical Chemistry B</i> , 2014, 118, 7618-7629.	2.6	3
96	Systematic Limitations in Concentration Analysis via Anomalous Small-Angle X-ray Scattering in the Small Structure Limit. <i>Polymers</i> , 2016, 8, 85.	4.5	3
97	Phase Transformation Behavior of Polylactide Probed by Small Angle Light Scattering and Calorimetry. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019, 57, 1483-1495.	2.1	3
98	Thermodynamic Analysis of the Self-Assembly of Pseudo Isocyanine Chloride in the Presence of Crowding Agents. <i>ChemSystemsChem</i> , 2021, 3, e2000051.	2.6	3
99	Adsorption behavior of partially collapsed polyacrylate coils on mica surfaces: A reciprocal space approach. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 1553-1561.	2.1	2
100	ZIF-8 Nanocrystal Formation: An In-Situ Synchrotron SAXS/WAXS Study. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2010, 636, 2072-2072.	1.2	0
101	Targeted Synthesis of the Type-A Particle Substructure from Enzymatically Produced Eumelanin. <i>Biomacromolecules</i> , 2022, , .	5.4	0
102	Synthesis and Functionalization of Monodisperse Nanoparticles with High Optical Density Based on Inorganic Networks. , 0, , 785-788.		0