Andrij Pich

List of Publications by Year
in descending order

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278 papers	8,757 citations	50566 48 h-index	87275 74 g-index
288 all docs	288 docs citations	288 times ranked	8610 citing authors

#	Article	IF	Citations
1	Charge-reversible and biodegradable chitosan-based microgels for lysozyme-triggered release of vancomycin. Journal of Advanced Research, 2023, 43, 87-96.	4.4	63
2	Safe and efficient 2D molybdenum disulfide platform for cooperative imaging-guided photothermal-selective chemotherapy: A preclinical study. Journal of Advanced Research, 2022, 37, 255-266.	4.4	45
3	Tuning the Volume Phase Transition Temperature of Microgels by Light. Advanced Functional Materials, 2022, 32, 2107946.	7.8	21
4	A plea for the integration of Green Toxicology in sustainable bioeconomy strategies â€“ Biosurfactants and microgel-based pesticide release systems as examples. Journal of Hazardous Materials, 2022, 426, 127800.	6.5	5
5	Nanostructuring the Interior of Stimuli-Responsive Microgels by N-Vinylimidazoles Quaternized with Hydrophobic Alkyl Chains. Macromolecules, 2022, 55, 844-861.	2.2	9
6	Tuning the Volume Phase Transition Temperature of Microgels by Light (Adv. Funct. Mater. 2/2022). Advanced Functional Materials, 2022, 32, .	7.8	1
7	Master of Chaos and Order: Opposite Microstructures of PCLâ€coâ€PGAâ€coâ€PLA Accessible by a Single Catalyst**. Angewandte Chemie - International Edition, 2022, 61, .	7.2	11
8	Kontrolle Ã¼ber Chaos und Ordnung: GegensÃtzliche Mikrostrukturen von PCLâ€coâ€PGAâ€coâ€PLA durch einen einzigen Katalysator zugÃnglich**. Angewandte Chemie, 2022, 134, e202112853.	1.6	2
9	Mechanically Resistant Poly(Nâ€vinylcaprolactam) Microgels with Sacrificial Supramolecular Catechin Hydrogen Bonds. Advanced Science, 2022, 9, e2104004.	5.6	15
10	In-Line Characterization of the Temperature-Responsive Behavior of Surface-Bound Microgel Coatings by QCM-D: A Novel Strategy for Protein Repellence Evaluation. ACS Applied Materials & Interfaces, 2022, 14, 10907-10916.	4.0	4
11	Innentitelbild: Kontrolle Ã¼ber Chaos und Ordnung: GegensÃtzliche Mikrostrukturen von PCLâ€coâ€PGAâ€coâ€PLA durch einen einzigen Katalysator zugÃnglich (Angew. Chem. 11/2022). Angewandte Chemie, 2022, 134, .	1.6	0
12	Isoeugenol-functionalized nanogels inhibit peri-implantitis associated bacteria in vitro. Anaerobe, 2022, , 102552.	1.0	2
13	Fabrication of pH-degradable supramacromolecular microgels with tunable size and shape via droplet-based microfluidics. Journal of Colloid and Interface Science, 2022, 617, 409-421.	5.0	23
14	Microgels react to force: mechanical properties, syntheses, and force-activated functions. Chemical Society Reviews, 2022, 51, 2939-2956.	18.7	23
15	Intelligent design of polymer nanogels for full-process sensitized radiotherapy and dual-mode computed tomography/magnetic resonance imaging of tumors. Theranostics, 2022, 12, 3420-3437.	4.6	10
16	Visible Light-Responsive Microgels Modified with Donorâ€“Acceptor Stenhouse Adducts. Chemistry of Materials, 2022, 34, 4774-4784.	3.2	7
17	Generation of Local Diffusioosmotic Flow by Light Responsive Microgels. Langmuir, 2022, 38, 6343-6351.	1.6	8
18	Synthesis of acrylic acid and acrylic esters via oxidation and oxidative alkoxylation of acrolein under mild conditions with selenium-modified microgel catalysts. Reaction Chemistry and Engineering, 2022, 7, 2192-2201.	1.9	2

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19	Using a bio-economic farm model to evaluate the economic potential and pesticide load reduction of the greenRelease technology. Agricultural Systems, 2022, 201, 103454.	3.2	4
20	Visible light and temperature dual-responsive microgels by crosslinking of spiropyran modified prepolymers. Journal of Colloid and Interface Science, 2021, 582, 1075-1084.	5.0	31
21	A dual thermoresponsive and antifouling zwitterionic microgel with pH triggered fluorescent â€œon-offâ€•core. Journal of Colloid and Interface Science, 2021, 589, 110-126.	5.0	16
22	Functionalized Cellulose Nanocrystals for Cellular Labeling and Bioimaging. Biomacromolecules, 2021, 22, 454-466.	2.6	16
23	Thermoresponsive zwitterionic poly(phosphobetaine) microgels: Effect of macroâ€RAFT chain length and crossâ€linker molecular weight on their antifouling properties. Polymers for Advanced Technologies, 2021, 32, 2710.	1.6	13
24	Multiâ€Responsive Biodegradable Cationic Nanogels for Highly Efficient Treatment of Tumors. Advanced Functional Materials, 2021, 31, 2100227.	7.8	117
25	Dual responsiveness of microgels induced by single light stimulus. Applied Physics Letters, 2021, 118, .	1.5	10
26	Zwitterionic Nanogels and Microgels: An Overview on Their Synthesis and Applications. Macromolecular Rapid Communications, 2021, 42, e2100112.	2.0	18
27	Nano- and microgels: a review for educators. Chemistry Teacher International, 2021, 3, 155-167.	0.9	5
28	Protecting redesigned supercharged ferritin containers against protease by integration into acid-cleavable polyelectrolyte microgels. Journal of Colloid and Interface Science, 2021, 591, 451-462.	5.0	8
29	Stimuliâ€Responsive Block Copolymer Micelles Based on Musselâ€Inspired Metalâ€Coordinated Supramolecular Networks. Macromolecular Rapid Communications, 2021, 42, e2100312.	2.0	5
30	A novel in vitro assay for peripheral nerve-related cell migration that preserves both extracellular matrix-derived molecular cues and nanofiber-derived topography. Journal of Neuroscience Methods, 2021, 361, 109289.	1.3	4
31	Guiding cell adhesion and motility by modulating cross-linking and topographic properties of microgel arrays. PLoS ONE, 2021, 16, e0257495.	1.1	5
32	Intelligent nanogels with self-adaptive responsiveness for improved tumor drug delivery and augmented chemotherapy. Bioactive Materials, 2021, 6, 3473-3484.	8.6	38
33	Dendrimer-decorated nanogels: Efficient nanocarriers for biodistribution in vivo and chemotherapy of ovarian carcinoma. Bioactive Materials, 2021, 6, 3244-3253.	8.6	46
34	Synthesis of Microgels with Minimal Final Concentration of Initiator. Computer Aided Chemical Engineering, 2021, 50, 51-56.	0.3	0
35	Stimuli-responsive microgels with cationic moieties: characterization and interaction with E. coli cells. Soft Matter, 2021, 17, 8678-8692.	1.2	9
36	Dynamic Nanoconfinement Enabled Highly Stretchable and Supratough Polymeric Materials with Desirable Healability and Biocompatibility. Advanced Materials, 2021, 33, e2105829.	11.1	102

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37	Post-Modification of Biobased Pyrazines and Their Polyesters. Macromolecules, 2021, 54, 10850-10859.	2.2	2
38	Enhanced catalyst performance through compartmentalization exemplified by colloidal l-proline modified microgel catalysts. Journal of Colloid and Interface Science, 2020, 559, 76-87.	5.0	29
39	Closing the 1â€“5â€¯Âµm size gap: Temperature-programmed, fed-batch synthesis of Âµm-sized microgels. Chemical Engineering Journal, 2020, 379, 122293.	6.6	11
40	Synthesis of Polyampholyte Janusâ€like Microgels by Coacervation of Reactive Precursors in Precipitation Polymerization. Angewandte Chemie - International Edition, 2020, 59, 1248-1255.	7.2	26
41	Undiscovered Potential: Ge Catalysts for Lactide Polymerization. Chemistry - A European Journal, 2020, 26, 212-221.	1.7	34
42	Mononuclear zinc(II) Schiff base complexes as catalysts for the ring-opening polymerization of lactide. European Polymer Journal, 2020, 122, 109302.	2.6	33
43	Pros and Cons: Supramolecular or Macromolecular: What Is Best for Functional Hydrogels with Advanced Properties?. Advanced Materials, 2020, 32, e1906012.	11.1	78
44	Amphiphilic PVCL/TBCHA microgels: From synthesis to characterization in a highly selective solvent. Journal of Colloid and Interface Science, 2020, 564, 344-356.	5.0	20
45	RÃ¼cktitelbild: Synthesis of Polyampholyte Janusâ€like Microgels by Coacervation of Reactive Precursors in Precipitation Polymerization (Angew. Chem. 3/2020). Angewandte Chemie, 2020, 132, 1372-1372.	1.6	0
46	Synthesis of Polyampholyte Janusâ€like Microgels by Coacervation of Reactive Precursors in Precipitation Polymerization. Angewandte Chemie, 2020, 132, 1264-1271.	1.6	3
47	Microgel organocatalysts: modulation of reaction rates at liquidâ€“liquid interfaces. Materials Advances, 2020, 1, 2983-2993.	2.6	15
48	MicroGelzymes: pH-Independent Immobilization of Cytochrome P450 BM3 in Microgels. Biomacromolecules, 2020, 21, 5128-5138.	2.6	25
49	Dual-Degradable Biohybrid Microgels by Direct Cross-Linking of Chitosan and Dextran Using Azideâ€“Alkyne Cycloaddition. Biomacromolecules, 2020, 21, 4933-4944.	2.6	26
50	Polyphosphazeneâ€“Tannic Acid Colloids as Building Blocks for Bio-Based Flame-Retardant Coatings. ACS Applied Polymer Materials, 2020, 2, 5345-5351.	2.0	18
51	Synthese des Glykosids 2 (Î²â€Galaktosyl)â€Ethyl Methacrylat mithilfe einer Î² Galaktosidase aus Pyrococcus woesei fÃ¼r die Glykopolymersynthese. Chemie-Ingenieur-Technik, 2020, 92, 1226-1227.	0.4	0
52	Impact of Reactive Amphiphilic Copolymers on Mechanical Properties and Cell Responses of Fibrinâ€Based Hydrogels. Advanced Functional Materials, 2020, 30, 2003528.	7.8	16
53	Stimuli-Responsive Zwitterionic Coreâ€“Shell Microgels for Antifouling Surface Coatings. ACS Applied Materials & Interfaces, 2020, 12, 58223-58238.	4.0	33
54	Trypsinâ€Free Cultivation of 3D Miniâ€Tissues in an Adaptive Membrane Bioreactor. Advanced Biology, 2020, 4, e2000081.	3.0	2

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55	Biocatalytic microgels (Î¼-Gelzymes): synthesis, concepts, and emerging applications. Green Chemistry, 2020, 22, 8183-8209.	4.6	23
56	Cumulative Submillisecond All-Atom Simulations of the Temperature-Induced Coil-to-Globule Transition of Poly(N-vinylcaprolactam) in Aqueous Solution. Macromolecules, 2020, 53, 9793-9810.	2.2	4
57	Scavenging One of the Liquids versus Emulsion Stabilization by Microgels in a Mixture of Two Immiscible Liquids. ACS Macro Letters, 2020, 9, 736-742.	2.3	11
58	Dual-Temperature-Responsive Microgels from a Zwitterionic Functional Graft Copolymer with Superior Protein Repelling Property. ACS Macro Letters, 2020, 9, 895-901.	2.3	26
59	The mechanism of stabilization of silver nanoparticles by chitosan in carbonic acid solutions. Colloid and Polymer Science, 2020, 298, 1135-1148.	1.0	8
60	Ranking of fiber composites by estimation of types and mechanisms of their fracture. Engineering Fracture Mechanics, 2020, 235, 107147.	2.0	5
61	Shear-Induced Structural and Functional Transformations of Poly(N-vinylcaprolactam) Microgels. ACS Applied Polymer Materials, 2020, 2, 1682-1691.	2.0	23
62	Morphology and Properties of Flame-Retardant Superhydrophobic Polymer Coatings Deposited on Cotton Fabrics from Supercritical CO₂. ACS Applied Polymer Materials, 2020, 2, 2919-2926.	2.0	10
63	Cyclophosphazene microgels with adjustable number of crosslinks and deformability by precipitation polycondensation of mono- and bifunctional amines with hexachlorocyclotriphosphazene. Polymer, 2020, 192, 122314.	1.8	10
64	Enzymatic Synthesis of 2-(Î²-Galactosyl)-ethyl Methacrylate by Î²-Galactosidase fromPyrococcus woeseiand Application for Glycopolymer Synthesis and Lectin Studies. Biomacromolecules, 2020, 21, 974-987.	2.6	12
65	Responsive Supramolecular Microgels with Redox-Triggered Cleavable Crosslinks. Macromolecules, 2020, 53, 1043-1053.	2.2	30
66	Biofunctionalized zinc peroxide nanoparticles inhibit peri-implantitis associated anaerobes and Aggregatibacter actinomycetemcomitans pH-dependent. Anaerobe, 2020, 62, 102153.	1.0	20
67	Compression and Ordering of Microgels in Monolayers Formed at Liquidâ€“Liquid Interfaces: Computer Simulation Studies. ACS Applied Materials & Interfaces, 2020, 12, 19903-19915.	4.0	15
68	Enhanced catalytic activity of copper complexes in microgels for aerobic oxidation of benzyl alcohols. Chemical Communications, 2020, 56, 5601-5604.	2.2	10
69	Dual Stimuliâ€Responsive Selfâ€Assembly Behavior of a Tailorâ€Made ABCâ€Type Amphiphilic Triâ€Block Copolymer. Journal of Polymer Science, 2020, 58, 843-851.	2.0	4
70	Model-Based Optimization of Microgel Synthesis in the Î¼m Size Range. Industrial & Engineering Chemistry Research, 2020, 59, 20437-20446.	1.8	3
71	Towards New Robust Zn(II) Complexes for the Ringâ€Opening Polymerization of Lactide Under Industrially Relevant Conditions. ChemistryOpen, 2019, 8, 1020-1026.	0.9	17
72	Synthesis of Poly(N-vinylcaprolactam)-Based Microgels by Precipitation Polymerization: Pseudo-Bulk Model for Particle Growth and Size Distribution. ACS Omega, 2019, 4, 13795-13807.	1.6	10

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73	Coupled stochastic simulation of the chain length and particle size distribution in miniemulsion radical copolymerization of styrene and N-vinylcaprolactam. Reaction Chemistry and Engineering, 2019, 4, 1935-1947.	1.9	24
74	Oneâ€Pot Twoâ€Step Chemoenzymatic Cascade for the Synthesis of a Bisâ€benzofuran Derivative. European Journal of Organic Chemistry, 2019, 2019, 6341-6346.	1.2	17
75	Heterolepic Î²â€Ketoiminate Zinc Phenoxide Complexes as Efficient Catalysts for the Ring Opening Polymerization of Lactide. ChemistryOpen, 2019, 8, 951-960.	0.9	20
76	Biadhesive Peptides for Assembling Stainless Steel and Compound Loaded Microâ€Containers. Macromolecular Bioscience, 2019, 19, e1900125.	2.1	17
77	Influence of size, crosslinking degree and surface structure of poly(N-vinylcaprolactam)-based microgels on their penetration into multicellular tumor spheroids. Biomaterials Science, 2019, 7, 4738-4747.	2.6	24
78	Selective Functionalization of Microgels with Enzymes by Sortagging. Bioconjugate Chemistry, 2019, 30, 2859-2869.	1.8	22
79	Redox-responsive degradable prodrug nanogels for intracellular drug delivery by crosslinking of amine-functionalized poly(N-vinylpyrrolidone) copolymers. Journal of Colloid and Interface Science, 2019, 540, 612-622.	5.0	48
80	Tuning a robust system: N,O zinc guanidine catalysts for the ROP of lactide. Dalton Transactions, 2019, 48, 6071-6082.	1.6	31
81	Model-based prediction of the hydrodynamic radius of collapsed microgels and experimental validation. Chemical Engineering Journal, 2019, 378, 121740.	6.6	8
82	Tuning Channel Architecture of Interdigitated Organic Electrochemical Transistors for Recording the Action Potentials of Electrogenic Cells. Advanced Functional Materials, 2019, 29, 1902085.	7.8	42
83	Aqueous solution behavior of thermoresponsive polyzwitterionic microgels based on poly(N-vinylcaprolactam) synthesized via RAFT precipitation polymerization. European Polymer Journal, 2019, 118, 195-204.	2.6	17
84	Amyloseâ€Coated Biohybrid Microgels by Phosphorylaseâ€Catalyzed Graftingâ€From Polymerization. Macromolecular Rapid Communications, 2019, 40, 1900144.	2.0	4
85	Seleniumâ€Modified Microgels as Bioâ€Inspired Oxidation Catalysts. Angewandte Chemie - International Edition, 2019, 58, 9791-9796.	7.2	39
86	Nanogels and Microgels: From Model Colloids to Applications, Recent Developments, and Future Trends. Langmuir, 2019, 35, 6231-6255.	1.6	395
87	Selenmodifizierte Mikrogele als bioinspirierte Oxidationskatalysatoren. Angewandte Chemie, 2019, 131, 9895-9901.	1.6	1
88	Aqueous microgels modified with photosensitive wedge-shaped amphiphilic molecules: synthesis, structure and photochemical behaviour. Photochemical and Photobiological Sciences, 2019, 18, 1709-1715.	1.6	5
89	Functional selenium modified microgels: temperature-induced phase transitions and network morphology. Soft Matter, 2019, 15, 3227-3240.	1.2	17
90	New Kids in Lactide Polymerization: Highly Active and Robust Iron Guanidine Complexes as Superior Catalysts. ChemSusChem, 2019, 12, 2161-2165.	3.6	53

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91	Distribution of Ionizable Groups in Polyampholyte Microgels Controls Interactions with Captured Proteins: From Blockade and â€œLevitationâ€•to Accelerated Release. Biomacromolecules, 2019, 20, 1578-1591.	2.6	38
92	Synthesis and structure of deuterated ultra-low cross-linked poly(N-isopropylacrylamide) microgels. Polymer Chemistry, 2019, 10, 2397-2405.	1.9	43
93	Multicompartment aqueous microgels with degradable hydrophobic domains. Polymer, 2019, 172, 283-293.	1.8	12
94	Amphiphilic microgels adsorbed at oilâ€“water interfaces as mixers of two immiscible liquids. Soft Matter, 2019, 15, 3978-3986.	1.2	25
95	Synthesis of acylglycerol derivatives by mechanochemistry. Beilstein Journal of Organic Chemistry, 2019, 15, 811-817.	1.3	20
96	Direct Monitoring of Microgel Formation during Precipitation Polymerization of N-Isopropylacrylamide Using in Situ SANS. ACS Omega, 2019, 4, 3690-3699.	1.6	21
97	Identifiability Analysis and Parameter Estimation of Microgel Synthesis: A Set-Membership Approach. Industrial & Engineering Chemistry Research, 2019, 58, 13675-13685.	1.8	10
98	Electroactive and degradable supramolecular microgels. Soft Matter, 2019, 15, 8589-8602.	1.2	21
99	Stimuli-Responsive Poly(N-Vinyllactams) with Glycidyl Side Groups: Synthesis, Characterization, and Conjugation with Enzymes. Biomacromolecules, 2019, 20, 992-1006.	2.6	25
100	Synthesis of acrylic acid and its esters with Se-containing catalysts. , 2019, , .		1
101	Stimuli responsive microgels decorated with oligoglycidol macromonomers: Synthesis, characterization and properties in aqueous solution. Polymer, 2018, 141, 21-33.	1.8	10
102	Monitoring Microgel Synthesis by Copolymerization of Nâ€•isopropylacrylamide and Nâ€•vinylcaprolactam via Inâ€•Line Raman Spectroscopy and Indirect Hard Modeling. Macromolecular Reaction Engineering, 2018, 12, 1700067.	0.9	12
103	Supramolecular Stimuliâ€•Responsive Microgels Crosslinked by Tannic Acid. Macromolecular Rapid Communications, 2018, 39, e1700808.	2.0	35
104	Tunable clustering of magnetic nanoparticles in microgels: enhanced magnetic relaxivity by modulation of network architecture. Nanoscale, 2018, 10, 3884-3892.	2.8	8
105	Functional Microgels for the Decoration of Biointerfaces. ChemNanoMat, 2018, 4, 889-896.	1.5	11
106	Surfactant-free synthesis of extremely small stimuli-responsive colloidal gels using a confined impinging jet reactor. Chemical Engineering Journal, 2018, 344, 375-379.	6.6	13
107	Swelling of a Responsive Network within Different Constraints in Multi-Thermosensitive Microgels. Macromolecules, 2018, 51, 2662-2671.	2.2	58
108	Enzymatic synthesis of temperature-responsive poly(N-vinylcaprolactam) microgels with glucose oxidase. Green Chemistry, 2018, 20, 431-439.	4.6	23

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109	In Situ Growth and Size Regulation of Single Gold Nanoparticles in Composite Microgels. Small, 2018, 14, e1803589.	5.2	21
110	From Batch to Continuous Precipitation Polymerization of Thermoresponsive Microgels. ACS Applied Materials & Interfaces, 2018, 10, 24799-24806.	4.0	61
111	Reversible Switching and Recycling of Adaptable Organic Microgel Catalysts (Microgelzymes) for Asymmetric Organocatalytic Desymmetrization. ACS Catalysis, 2018, 8, 7991-7996.	5.5	42
112	Synthesis, Structures, and Catalytic Activity of Homoâ€•and Heteroleptic Ketoiminate Zinc Complexes in Lactide Polymerization. European Journal of Inorganic Chemistry, 2018, 2018, 4014-4021.	1.0	17
113	Kinetic Modeling of Precipitation Terpolymerization for Functional Microgels. Computer Aided Chemical Engineering, 2018, 43, 109-114.	0.3	13
114	An anionic shell shields a cationic core allowing for uptake and release of polyelectrolytes within coreâ€“shell responsive microgels. Soft Matter, 2018, 14, 4287-4299.	1.2	52
115	Stimuli-Responsive Zwitterionic Microgels with Covalent and Ionic Cross-Links. Macromolecules, 2018, 51, 6707-6716.	2.2	28
116	Gadolinium-Loaded Poly(N-vinylcaprolactam) Nanogels: Synthesis, Characterization, and Application for Enhanced Tumor MR Imaging. ACS Applied Materials & Interfaces, 2017, 9, 3411-3418.	4.0	60
117	Funktionelle Isoeugenolâ€•modifizierte Nanogelâ€Beschichtungen fÃ¼r biologische GrenzflÃchen. Angewandte Chemie, 2017, 129, 2537-2543.	1.6	3
118	Functional Isoeugenolâ€•Modified Nanogel Coatings for the Design of Biointerfaces. Angewandte Chemie - International Edition, 2017, 56, 2497-2502.	7.2	45
119	Internal structure and phase transition behavior of stimuli-responsive microgels in PEG melts. Soft Matter, 2017, 13, 2738-2748.	1.2	9
120	Tunable permeability and selectivity: Heatable inorganic porous hollow fiber membrane with a thermo-responsive microgel coating. Journal of Membrane Science, 2017, 539, 451-457.	4.1	55
121	Biofunctional Microgelâ€Based Fertilizers for Controlled Foliar Delivery of Nutrients to Plants. Angewandte Chemie - International Edition, 2017, 56, 7380-7386.	7.2	89
122	Biofunktionale Mikrogelâ€basierte DÃ¼nger zur kontrollierten BlattdÃ¼ngung mit NÃhrstoffen auf Pflanzen. Angewandte Chemie, 2017, 129, 7486-7492.	1.6	7
123	Frontispiece: Biofunctional Microgelâ€Based Fertilizers for Controlled Foliar Delivery of Nutrients to Plants. Angewandte Chemie - International Edition, 2017, 56, .	7.2	0
124	Frontispiz: Biofunktionale Mikrogelâ€basierte DÃ¼nger zur kontrollierten BlattdÃ¼ngung mit NÃhrstoffen auf Pflanzen. Angewandte Chemie, 2017, 129, .	1.6	0
125	Intramicrogel Complexation of Oppositely Charged Compartments As a Route to Quasi-Hollow Structures. Macromolecules, 2017, 50, 4435-4445.	2.2	19
126	Physicochemical Characterization of the Shell Composition of PBCAâ€Based Polymeric Microbubbles. Macromolecular Bioscience, 2017, 17, 1700002.	2.1	16

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127	PBCA-based polymeric microbubbles for molecular imaging and drug delivery. Journal of Controlled Release, 2017, 259, 128-135.	4.8	59
128	Hydrophobic superparamagnetic FePt nanoparticles in hydrophilic poly(N-vinylcaprolactam) microgels: a new multifunctional hybrid system. Journal of Materials Chemistry B, 2017, 5, 1284-1292.	2.9	33
129	Water-based, surfactant-free cytocompatible nanoparticle-microgel-composite biomaterials â€“ rational design by laser synthesis, processing into fiber pads and impact on cell proliferation. BioNanoMaterials, 2017, 18, .	1.4	4
130	Dual Responsive Poly(N-vinylcaprolactam) Based Degradable Microgels for Drug Delivery. Particle and Particle Systems Characterization, 2017, 34, 1700132.	1.2	44
131	Sortase-Mediated Surface Functionalization of Stimuli-Responsive Microgels. Biomacromolecules, 2017, 18, 2789-2798.	2.6	49
132	Biofunctionalized zinc peroxide (ZnO₂) nanoparticles as active oxygen sources and antibacterial agents. RSC Advances, 2017, 7, 38998-39010.	1.7	23
133	Synthesis of Poly(N-vinylcaprolactam)-Based Microgels by Precipitation Polymerization: Process Modeling and Experimental Validation. Industrial & Engineering Chemistry Research, 2017, 56, 14545-14556.	1.8	42
134	Borazine-based inorganicâ€“organic hybrid cyclomatrix microspheres by silicon/boron exchange precipitation polycondensation. Polymer Chemistry, 2017, 8, 5264-5268.	1.9	32
135	Modified Glass Ionomer Cement with â€œRemove on Demandâ€•Properties: An In Vitro Study. Dentistry Journal, 2017, 5, 9.	0.9	5
136	Noninvasive Assessment of Elimination and Retention using CT-FMT and Kinetic Whole-body Modeling. Theranostics, 2017, 7, 1499-1510.	4.6	20
137	Modelling pH-Optimized Degradation of Microgel-Functionalized Polyesters. Journal of Healthcare Engineering, 2016, 2016, 1-8.	1.1	0
138	Diffusive Motion of Linear Microgel Assemblies in Solution. Polymers, 2016, 8, 413.	2.0	5
139	Mixing of Two Immiscible Liquids within the Polymer Microgel Adsorbed at Their Interface. ACS Macro Letters, 2016, 5, 612-616.	2.3	53
140	Enabling the measurement of particle sizes in stirred colloidal suspensions by embedding dynamic light scattering into an automated probe head. Measurement: Journal of the International Measurement Confederation, 2016, 80, 92-98.	2.5	26
141	Polymer Gels as EAPs: Materials. , 2016, , 27-52.		1
142	Responsive microgels with supramolecular crosslinks: synthesis and triggered degradation in aqueous medium. Polymer Chemistry, 2016, 7, 5687-5697.	1.9	29
143	Ultrasmall functional ZnO₂ nanoparticles: synthesis, characterization and oxygen release properties. RSC Advances, 2016, 6, 84777-84786.	1.7	14
144	Reversible Deactivation of Enzymes by Redoxâ€Responsive Nanogel Carriers. Macromolecular Rapid Communications, 2016, 37, 1765-1771.	2.0	18

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145	Tunable Enzymatic Activity and Enhanced Stability of Cellulase Immobilized in Biohybrid Nanogels. Biomacromolecules, 2016, 17, 3619-3631.	2.6	46
146	Reactive Copolymers Based on N-Vinyl Lactams with Pyridyl Disulfide Side Groups via RAFT Polymerization and Postmodification via Thiolâ€“Disulfide Exchange Reaction. Macromolecules, 2016, 49, 7141-7154.	2.2	25
147	The next step in precipitation polymerization of N-isopropylacrylamide: particle number density control by monochain globule surface charge modulation. Polymer Chemistry, 2016, 7, 5123-5131.	1.9	26
148	Surfaceâ€Grafted Nanogel Arrays Direct Cell Adhesion and Motility. Advanced Materials Interfaces, 2016, 3, 1600455.	1.9	14
149	Temperature and pH dual-responsive poly(vinyl lactam) copolymers functionalized with amine side groups via RAFT polymerization. Polymer Chemistry, 2016, 7, 5011-5022.	1.9	24
150	Polymer Gels as EAPs: Materials. , 2016, , 1-27.		0
151	Stimuli-responsive poly(N-vinylcaprolactam-co-2-methoxyethyl acrylate) coreâ€“shell microgels: facile synthesis, modulation of surface properties and controlled internalisation into cells. Journal of Materials Chemistry B, 2016, 4, 5127-5137.	2.9	35
152	A facile approach for thermal and reduction dual-responsive prodrug nanogels for intracellular doxorubicin delivery. Journal of Materials Chemistry B, 2016, 4, 7572-7583.	2.9	32
153	Reversible Size Modulation of Aqueous Microgels via Orthogonal or Combined Application of Thermo- and Phototriggers. Langmuir, 2016, 32, 3867-3879.	1.6	31
154	Calcium phosphate/microgel composites for 3D powderbed printing of ceramic materials. Biomedizinische Technik, 2016, 61, 267-279.	0.9	18
155	In-line Monitoring of Monomer and Polymer Content During Microgel Synthesis Using Precipitation Polymerization via Raman Spectroscopy and Indirect Hard Modeling. Applied Spectroscopy, 2016, 70, 416-426.	1.2	37
156	Functional PMMA nanogels by cross-linking with cyclodextrin methacrylate. Polymer, 2016, 86, 176-188.	1.8	14
157	When Colloidal Particles Become Polymer Coils. Langmuir, 2016, 32, 723-730.	1.6	82
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