Esther Amstad

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

85 papers	3,445 citations	26 h-index	58 g-index
89 ext. papers	3,934 ext. citations	7.8 avg, IF	5.72 L-index

#	Paper	IF	Citations
85	Mechanical reinforcement of granular hydrogels.. *Chemical Science*, **2022**, 13, 3082-3093	9.4	3
84	Succinic Acid Based Particles as Carriers of Volatile Substances. *ACS Sustainable Chemistry and Engineering*, **2022**, 10, 2914-2920	8.3	1
83	Recycling of Load-Bearing 3D Printable Double Network Granular Hydrogels.. *Small*, **2022**, e2107128	11	3
82	Spray-Assisted Formation of Micrometer-Sized Emulsions.. *ACS Applied Materials & Interfaces*, **2022**,	9.5	1
81	Does the Size of Microgels Influence the Toughness of Microgel-Reinforced Hydrogels?. *Macromolecular Rapid Communications*, **2022**, e2200196	4.8	3
80	Tailored Double Emulsions Made Simple. *Advanced Materials*, **2021**, e2107338	24	6
79	Controlling the calcium carbonate microstructure of engineered living building materials.. *Journal of Materials Chemistry A*, **2021**, 9, 24438-24451	13	1
78	Monodisperse Selectively Permeable Hydrogel Capsules Made from Single Emulsion Drops. *ACS Applied Materials & Interfaces*, **2021**, 13, 15601-15609	9.5	0
77	Reversible and Broad-Range Oxygen Sensing Based on Purely Organic Long-Lived Photoemitters. *ACS Applied Polymer Materials*, **2021**, 3, 2480-2488	4.3	1
76	Temperature-induced liquid crystal microdroplet formation in a partially miscible liquid mixture. *Soft Matter*, **2021**, 17, 947-954	3.6	3
75	Shear Stress-Responsive Polymersome Nanoreactors Inspired by the Marine Bioluminescence of Dinoflagellates. *Angewandte Chemie*, **2021**, 133, 917-922	3.6	4
74	3D Printing of Strong and Tough Double Network Granular Hydrogels. *Advanced Functional Materials*, **2021**, 31, 2005929	15.6	31
73	Shear Stress-Responsive Polymersome Nanoreactors Inspired by the Marine Bioluminescence of Dinoflagellates. *Angewandte Chemie - International Edition*, **2021**, 60, 904-909	16.4	10
72	Linear triglycerol-based fluorosurfactants show high potential for droplet-microfluidics-based biochemical assays. *Soft Matter*, **2021**, 17, 7260-7267	3.6	2
71	Load-bearing hydrogels ionically reinforced through competitive ligand exchanges. *Biomaterials Science*, **2021**, 9, 6753-6762	7.4	0
70	Shape retaining self-healing metal-coordinated hydrogels. *Nanoscale*, **2021**, 13, 4073-4084	7.7	4
69	From vesicles to materials: bioinspired strategies for fabricating hierarchically structured soft matter. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2021**, 379, 20200338	3	1

68	Reversible Oxygen Sensing Based on Multi-Emission Fluorescence Quenching. *Sensors*, **2020**, 20,	3.8	8
67	Microfluidics of binary liquid mixtures with temperature-dependent miscibility. *Molecular Systems Design and Engineering*, **2020**, 5, 358-365	4.6	3
66	Everything in its right place: controlling the local composition of hydrogels using microfluidic traps. *Lab on A Chip*, **2020**, 20, 4572-4581	7.2	1
65	Wasser: Wie beeinflusst es die CaCO3-Bildung?. *Angewandte Chemie*, **2020**, 132, 1814-1833	3.6	2
64	Water: How Does It Influence the CaCO Formation?. *Angewandte Chemie - International Edition*, **2020**, 59, 1798-1816	16.4	48
63	Additives: Their Influence on the Humidity- and Pressure-Induced Crystallization of Amorphous CaCO3. *Chemistry of Materials*, **2020**, 32, 4282-4291	9.6	16
62	The Investigation of Flory-Huggins Interaction Parameters for Amorphous Solid Dispersion Across the Entire Temperature and Composition Range. *Pharmaceutics*, **2019**, 11,	6.4	10
61	Mechano-responsive microcapsules with uniform thin shells. *Soft Matter*, **2019**, 15, 1290-1296	3.6	10
60	Microfluidic fabrication of vesicles with hybrid lipid/nanoparticle bilayer membranes. *Soft Matter*, **2019**, 15, 1388-1395	3.6	7
59	Black Lipid Membranes: Challenges in Simultaneous Quantitative Characterization by Electrophysiology and Fluorescence Microscopy. *Langmuir*, **2019**, 35, 8748-8757	4	6
58	Production of Additive-Free Amorphous Nanoparticles with a SAW-Based Microfluidic Spray-Dryer. *Advanced Materials Technologies*, **2019**, 4, 1800665	6.8	6
57	Bioinspired Viscoelastic Capsules: Delivery Vehicles and Beyond. *Advanced Materials*, **2019**, 31, e1808233	24	10
56	Simplified Drop-seq workflow with minimized bead loss using a bead capture and processing microfluidic chip. *Lab on A Chip*, **2019**, 19, 1610-1620	7.2	13
55	Nacre-inspired Hard and Tough Materials. *Chimia*, **2019**, 73, 29-34	1.3	6
54	Tuning the Incorporation of Magnesium into Calcite during Its Crystallization from Additive-Free Aqueous Solution. *Crystal Growth and Design*, **2019**, 19, 4385-4394	3.5	6
53	The interfacial structure of nano- and micron-sized oil and water droplets stabilized with SDS and Span80. *Journal of Chemical Physics*, **2019**, 150, 204704	3.9	14
52	Microfluidic Fabrication of Capsule Sensor Platform with Double-Shell Structure. *Advanced Functional Materials*, **2019**, 29, 1902670	15.6	16
51	Selectively Permeable Double Emulsions. *Small*, **2019**, 15, e1903054	11	7

50	Fabrication of Hexagonal-Prismatic Granular Hydrogel Sheets. *Langmuir*, **2018**, 34, 3459-3466	4	13
49	Capsules made from prefabricated thin films. *Science*, **2018**, 359, 743	33.3	6
48	Production of monodisperse drops from viscous fluids. *Lab on A Chip*, **2018**, 18, 648-654	7.2	21
47	Scalable production of double emulsion drops with thin shells. *Lab on A Chip*, **2018**, 18, 1936-1942	7.2	8
46	Cross-talk between emulsion drops: how are hydrophilic reagents transported across oil phases?. *Lab on A Chip*, **2018**, 18, 3903-3912	7.2	27
45	Amorphous CaCO: Influence of the Formation Time on Its Degree of Hydration and Stability. *Journal of the American Chemical Society*, **2018**, 140, 14289-14299	16.4	37
44	Microfluidic device for real-time formulation of reagents and their subsequent encapsulation into double emulsions. *Scientific Reports*, **2018**, 8, 8143	4.9	8
43	The microfluidic nebulator: production of sub-micrometer sized airborne drops. *Lab on A Chip*, **2017** , 17, 1475-1480	7.2	11
42	Rapid Production of Submicron Drug Substance Particles by Supersonic Spray Drying. *Crystal Growth and Design*, **2017**, 17, 2046-2053	3.5	8
41	Reply to the ‘Comment on "Robust scalable high throughput production of monodisperse drops"’ by M. Nakajima, Lab Chip, 2017, 17, DOI: 10.1039/C7LC00181A. *Lab on A Chip*, **2017**, 17, 2332-2333	7.2	2
40	High-Throughput Step Emulsification for the Production of Functional Materials Using a Glass Microfluidic Device. *Macromolecular Chemistry and Physics*, **2017**, 218, 1600472	2.6	77
39	Biocompatible microcapsules with a water core templated from single emulsions. *Chinese Chemical Letters*, **2017**, 28, 1897-1900	8.1	16
38	Capsules: Their Past and Opportunities for Their Future. *ACS Macro Letters*, **2017**, 6, 841-847	6.6	29
37	Biocompatible Amphiphilic Hydrogel-Solid Dimer Particles as Colloidal Surfactants. *ACS Nano*, **2017**, 11, 11978-11985	16.7	56
36	Parallelization of microfluidic flow-focusing devices. *Physical Review E*, **2017**, 95, 043105	2.4	19
35	Microfluidics: A Tool to Control the Size and Composition of Particles. *Chimia*, **2017**, 71, 334-341	1.3	10
34	Influence of Fluorinated Surfactant Composition on the Stability of Emulsion Drops. *Macromolecular Chemistry and Physics*, **2017**, 218, 1600365	2.6	25
33	Stabilization of the Amorphous Structure of Spray-Dried Drug Nanoparticles. *Journal of Physical Chemistry B*, **2016**, 120, 9161-5	3.4	19

32	Reducing the shell thickness of double emulsions using microfluidics. *Microfluidics and Nanofluidics*, **2016**, 20, 1	2.8	9
31	Clogging in parallelized tapered microfluidic channels. *Microfluidics and Nanofluidics*, **2016**, 20, 1	2.8	26
30	Microarrays for the study of compartmentalized microorganisms in alginate microbeads and (W/O/W) double emulsions. *RSC Advances*, **2016**, 6, 114830-114842	3.7	8
29	Robust scalable high throughput production of monodisperse drops. *Lab on A Chip*, **2016**, 16, 4163-4172	7.2	125
28	Scalable single-step microfluidic production of single-core double emulsions with ultra-thin shells. *Lab on A Chip*, **2015**, 15, 3335-40	7.2	46
27	NANOPARTICLES. Production of amorphous nanoparticles by supersonic spray-drying with a microfluidic nebulator. *Science*, **2015**, 349, 956-60	33.3	98
26	Crystallization of undercooled liquid fenofibrate. *Physical Chemistry Chemical Physics*, **2015**, 17, 30158-61	3.6	11
25	The microfluidic post-array device: high throughput production of single emulsion drops. *Lab on A Chip*, **2014**, 14, 705-9	7.2	27
24	Stabilization and Characterization of Iron Oxide Superparamagnetic Core-Shell Nanoparticles for Biomedical Applications **2014**, 355-387		1
23	Leveraging Liquid-Liquid Interfaces to Assemble Responsive Vesicles. *Chimia*, **2014**, 68, 819	1.3	
22	Ultrathin shell double emulsion templated giant unilamellar lipid vesicles with controlled microdomain formation. *Small*, **2014**, 10, 950-6	11	130
21	25th anniversary article: double emulsion templated solid microcapsules: mechanics and controlled release. *Advanced Materials*, **2014**, 26, 2205-18	24	180
20	Photocatalytic nanolithography of self-assembled monolayers and proteins. *ACS Nano*, **2013**, 7, 7610-8	16.7	25
19	Nanoparticle actuated hollow drug delivery vehicles. *Nanomedicine*, **2012**, 7, 145-64	5.6	73
18	Photo- and Thermoresponsive Polymersomes for Triggered Release. *Angewandte Chemie*, **2012**, 124, 12667-12671	3.6	24
17	Photo- and thermoresponsive polymersomes for triggered release. *Angewandte Chemie - International Edition*, **2012**, 51, 12499-503	16.4	124
16	Influence of Electronegative Substituents on the Binding Affinity of Catechol-Derived Anchors to Fe3O4 Nanoparticles. *Journal of Physical Chemistry C*, **2011**, 115, 683-691	3.8	125
15	Adsorption of core-shell nanoparticles at liquid□quid interfaces. *Soft Matter*, **2011**, 7, 7663	3.6	75

14	Triggered release from liposomes through magnetic actuation of iron oxide nanoparticle containing membranes. *Nano Letters*, **2011**, 11, 1664-70	11.5	309
13	Stabilization and functionalization of iron oxide nanoparticles for biomedical applications. *Nanoscale*, **2011**, 3, 2819-43	7.7	314
12	Simultaneous formation of ferrite nanocrystals and deposition of thin films via a microwave-assisted nonaqueous sol–gel process. *Journal of Sol-Gel Science and Technology*, **2011**, 57, 313-322	2.3	63
11	Magnetic decoupling of surface Fe3+ in magnetite nanoparticles upon nitrocatechol-anchored dispersant binding. *Chemistry - A European Journal*, **2011**, 17, 7396-8	4.8	11
10	Yielding of weakly attractive nanoparticle networks. *Soft Matter*, **2011**, 7, 6408	3.6	15
9	Self-assembly of iron oxide-poly(ethylene glycol) core-shell nanoparticles at liquid-liquid interfaces. *Chimia*, **2010**, 64, 145-9	1.3	20
8	Characterization of supported lipid bilayers incorporating the phosphoinositides phosphatidylinositol 4,5-biphosphate and phosphoinositol-3,4,5-triphosphate by complementary techniques. *Biointerphases*, **2010**, 5, 114-9	1.8	20
7	Nitrocatechol dispersants to tailor superparamagnetic Fe3O4 nanoparticles. *Chimia*, **2010**, 64, 826	1.3	4
6	Nanoscale probing of a polymer-blend thin film with tip-enhanced Raman spectroscopy. *Small*, **2009**, 5, 952-60	11	79
5	Surface functionalization of single superparamagnetic iron oxide nanoparticles for targeted magnetic resonance imaging. *Small*, **2009**, 5, 1334-42	11	191
4	Ultrastable iron oxide nanoparticle colloidal suspensions using dispersants with catechol-derived anchor groups. *Nano Letters*, **2009**, 9, 4042-8	11.5	371
3	Colloidal stabilization of nanoparticles in concentrated suspensions. *Langmuir*, **2007**, 23, 1081-90	4	193
2	Tribological properties of graphite- and ZrC-reinforced bulk metallic glass composites. *Intermetallics*, **2007**, 15, 1228-1236	3.5	27
1	Rheology of Concentrated Suspensions Containing Weakly Attractive Alumina Nanoparticles. *Journal of the American Ceramic Society*, **2006**, 89, 2418-2425	3.8	61