

# Esther Amstad

## List of Publications by Citations

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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	Ultrastable iron oxide nanoparticle colloidal suspensions using dispersants with catechol-derived anchor groups. <i>Nano Letters</i> , <b>2009</b> , 9, 4042-8	11.5	371
84	Stabilization and functionalization of iron oxide nanoparticles for biomedical applications. <i>Nanoscale</i> , <b>2011</b> , 3, 2819-43	7.7	314
83	Triggered release from liposomes through magnetic actuation of iron oxide nanoparticle containing membranes. <i>Nano Letters</i> , <b>2011</b> , 11, 1664-70	11.5	309
82	Colloidal stabilization of nanoparticles in concentrated suspensions. <i>Langmuir</i> , <b>2007</b> , 23, 1081-90	4	193
81	Surface functionalization of single superparamagnetic iron oxide nanoparticles for targeted magnetic resonance imaging. <i>Small</i> , <b>2009</b> , 5, 1334-42	11	191
80	25th anniversary article: double emulsion templated solid microcapsules: mechanics and controlled release. <i>Advanced Materials</i> , <b>2014</b> , 26, 2205-18	24	180
79	Ultrathin shell double emulsion templated giant unilamellar lipid vesicles with controlled microdomain formation. <i>Small</i> , <b>2014</b> , 10, 950-6	11	130
78	Influence of Electronegative Substituents on the Binding Affinity of Catechol-Derived Anchors to Fe <sub>3</sub> O <sub>4</sub> Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 683-691	3.8	125
77	Robust scalable high throughput production of monodisperse drops. <i>Lab on A Chip</i> , <b>2016</b> , 16, 4163-4172	7.2	125
76	Photo- and thermoresponsive polymersomes for triggered release. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 12499-503	16.4	124
75	NANOPARTICLES. Production of amorphous nanoparticles by supersonic spray-drying with a microfluidic nebulator. <i>Science</i> , <b>2015</b> , 349, 956-60	33.3	98
74	Nanoscale probing of a polymer-blend thin film with tip-enhanced Raman spectroscopy. <i>Small</i> , <b>2009</b> , 5, 952-60	11	79
73	High-Throughput Step Emulsification for the Production of Functional Materials Using a Glass Microfluidic Device. <i>Macromolecular Chemistry and Physics</i> , <b>2017</b> , 218, 1600472	2.6	77
72	Adsorption of core-shell nanoparticles at liquid-liquid interfaces. <i>Soft Matter</i> , <b>2011</b> , 7, 7663	3.6	75
71	Nanoparticle actuated hollow drug delivery vehicles. <i>Nanomedicine</i> , <b>2012</b> , 7, 145-64	5.6	73
70	Simultaneous formation of ferrite nanocrystals and deposition of thin films via a microwave-assisted nonaqueous sol-gel process. <i>Journal of Sol-Gel Science and Technology</i> , <b>2011</b> , 57, 313-322	2.3	63
69	Rheology of Concentrated Suspensions Containing Weakly Attractive Alumina Nanoparticles. <i>Journal of the American Ceramic Society</i> , <b>2006</b> , 89, 2418-2425	3.8	61

68	Biocompatible Amphiphilic Hydrogel-Solid Dimer Particles as Colloidal Surfactants. <i>ACS Nano</i> , <b>2017</b> , 11, 11978-11985	16.7	56
67	Water: How Does It Influence the CaCO Formation?. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 1798-1816	16.4	48
66	Scalable single-step microfluidic production of single-core double emulsions with ultra-thin shells. <i>Lab on A Chip</i> , <b>2015</b> , 15, 3335-40	7.2	46
65	Amorphous CaCO: Influence of the Formation Time on Its Degree of Hydration and Stability. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 14289-14299	16.4	37
64	3D Printing of Strong and Tough Double Network Granular Hydrogels. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2005929	15.6	31
63	Capsules: Their Past and Opportunities for Their Future. <i>ACS Macro Letters</i> , <b>2017</b> , 6, 841-847	6.6	29
62	The microfluidic post-array device: high throughput production of single emulsion drops. <i>Lab on A Chip</i> , <b>2014</b> , 14, 705-9	7.2	27
61	Tribological properties of graphite- and ZrC-reinforced bulk metallic glass composites. <i>Intermetallics</i> , <b>2007</b> , 15, 1228-1236	3.5	27
60	Cross-talk between emulsion drops: how are hydrophilic reagents transported across oil phases?. <i>Lab on A Chip</i> , <b>2018</b> , 18, 3903-3912	7.2	27
59	Clogging in parallelized tapered microfluidic channels. <i>Microfluidics and Nanofluidics</i> , <b>2016</b> , 20, 1	2.8	26
58	Photocatalytic nanolithography of self-assembled monolayers and proteins. <i>ACS Nano</i> , <b>2013</b> , 7, 7610-8	16.7	25
57	Influence of Fluorinated Surfactant Composition on the Stability of Emulsion Drops. <i>Macromolecular Chemistry and Physics</i> , <b>2017</b> , 218, 1600365	2.6	25
56	Photo- and Thermoresponsive Polymersomes for Triggered Release. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 12667-12671	3.6	24
55	Production of monodisperse drops from viscous fluids. <i>Lab on A Chip</i> , <b>2018</b> , 18, 648-654	7.2	21
54	Self-assembly of iron oxide-poly(ethylene glycol) core-shell nanoparticles at liquid-liquid interfaces. <i>Chimia</i> , <b>2010</b> , 64, 145-9	1.3	20
53	Characterization of supported lipid bilayers incorporating the phosphoinositides phosphatidylinositol 4,5-biphosphate and phosphoinositol-3,4,5-triphosphate by complementary techniques. <i>Biointerphases</i> , <b>2010</b> , 5, 114-9	1.8	20
52	Stabilization of the Amorphous Structure of Spray-Dried Drug Nanoparticles. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 9161-5	3.4	19
51	Parallelization of microfluidic flow-focusing devices. <i>Physical Review E</i> , <b>2017</b> , 95, 043105	2.4	19

50	Microfluidic Fabrication of Capsule Sensor Platform with Double-Shell Structure. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1902670	15.6	16
49	Biocompatible microcapsules with a water core templated from single emulsions. <i>Chinese Chemical Letters</i> , <b>2017</b> , 28, 1897-1900	8.1	16
48	Additives: Their Influence on the Humidity- and Pressure-Induced Crystallization of Amorphous CaCO <sub>3</sub> . <i>Chemistry of Materials</i> , <b>2020</b> , 32, 4282-4291	9.6	16
47	Yielding of weakly attractive nanoparticle networks. <i>Soft Matter</i> , <b>2011</b> , 7, 6408	3.6	15
46	The interfacial structure of nano- and micron-sized oil and water droplets stabilized with SDS and Span80. <i>Journal of Chemical Physics</i> , <b>2019</b> , 150, 204704	3.9	14
45	Simplified Drop-seq workflow with minimized bead loss using a bead capture and processing microfluidic chip. <i>Lab on A Chip</i> , <b>2019</b> , 19, 1610-1620	7.2	13
44	Fabrication of Hexagonal-Prismatic Granular Hydrogel Sheets. <i>Langmuir</i> , <b>2018</b> , 34, 3459-3466	4	13
43	The microfluidic nebulator: production of sub-micrometer sized airborne drops. <i>Lab on A Chip</i> , <b>2017</b> , 17, 1475-1480	7.2	11
42	Crystallization of undercooled liquid fenofibrate. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 30158-63.6	3.6	11
41	Magnetic decoupling of surface Fe <sup>3+</sup> in magnetite nanoparticles upon nitrocatechol-anchored dispersant binding. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 7396-8	4.8	11
40	The Investigation of Flory-Huggins Interaction Parameters for Amorphous Solid Dispersion Across the Entire Temperature and Composition Range. <i>Pharmaceutics</i> , <b>2019</b> , 11,	6.4	10
39	Mechano-responsive microcapsules with uniform thin shells. <i>Soft Matter</i> , <b>2019</b> , 15, 1290-1296	3.6	10
38	Bioinspired Viscoelastic Capsules: Delivery Vehicles and Beyond. <i>Advanced Materials</i> , <b>2019</b> , 31, e1808233	3.4	10
37	Microfluidics: A Tool to Control the Size and Composition of Particles. <i>Chimia</i> , <b>2017</b> , 71, 334-341	1.3	10
36	Shear Stress-Responsive Polymersome Nanoreactors Inspired by the Marine Bioluminescence of Dinoflagellates. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 904-909	16.4	10
35	Reducing the shell thickness of double emulsions using microfluidics. <i>Microfluidics and Nanofluidics</i> , <b>2016</b> , 20, 1	2.8	9
34	Rapid Production of Submicron Drug Substance Particles by Supersonic Spray Drying. <i>Crystal Growth and Design</i> , <b>2017</b> , 17, 2046-2053	3.5	8
33	Reversible Oxygen Sensing Based on Multi-Emission Fluorescence Quenching. <i>Sensors</i> , <b>2020</b> , 20,	3.8	8

32	Scalable production of double emulsion drops with thin shells. <i>Lab on A Chip</i> , <b>2018</b> , 18, 1936-1942	7.2	8
31	Microarrays for the study of compartmentalized microorganisms in alginate microbeads and (W/O/W) double emulsions. <i>RSC Advances</i> , <b>2016</b> , 6, 114830-114842	3.7	8
30	Microfluidic device for real-time formulation of reagents and their subsequent encapsulation into double emulsions. <i>Scientific Reports</i> , <b>2018</b> , 8, 8143	4.9	8
29	Microfluidic fabrication of vesicles with hybrid lipid/nanoparticle bilayer membranes. <i>Soft Matter</i> , <b>2019</b> , 15, 1388-1395	3.6	7
28	Selectively Permeable Double Emulsions. <i>Small</i> , <b>2019</b> , 15, e1903054	11	7
27	Black Lipid Membranes: Challenges in Simultaneous Quantitative Characterization by Electrophysiology and Fluorescence Microscopy. <i>Langmuir</i> , <b>2019</b> , 35, 8748-8757	4	6
26	Production of Additive-Free Amorphous Nanoparticles with a SAW-Based Microfluidic Spray-Dryer. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1800665	6.8	6
25	Nacre-inspired Hard and Tough Materials. <i>Chimia</i> , <b>2019</b> , 73, 29-34	1.3	6
24	Capsules made from prefabricated thin films. <i>Science</i> , <b>2018</b> , 359, 743	33.3	6
23	Tuning the Incorporation of Magnesium into Calcite during Its Crystallization from Additive-Free Aqueous Solution. <i>Crystal Growth and Design</i> , <b>2019</b> , 19, 4385-4394	3.5	6
22	Tailored Double Emulsions Made Simple. <i>Advanced Materials</i> , <b>2021</b> , e2107338	24	6
21	Nitrocatechol dispersants to tailor superparamagnetic Fe <sub>3</sub> O <sub>4</sub> nanoparticles. <i>Chimia</i> , <b>2010</b> , 64, 826	1.3	4
20	Shear Stress-Responsive Polymersome Nanoreactors Inspired by the Marine Bioluminescence of Dinoflagellates. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 917-922	3.6	4
19	Shape retaining self-healing metal-coordinated hydrogels. <i>Nanoscale</i> , <b>2021</b> , 13, 4073-4084	7.7	4
18	Microfluidics of binary liquid mixtures with temperature-dependent miscibility. <i>Molecular Systems Design and Engineering</i> , <b>2020</b> , 5, 358-365	4.6	3
17	Temperature-induced liquid crystal microdroplet formation in a partially miscible liquid mixture. <i>Soft Matter</i> , <b>2021</b> , 17, 947-954	3.6	3
16	Mechanical reinforcement of granular hydrogels.. <i>Chemical Science</i> , <b>2022</b> , 13, 3082-3093	9.4	3
15	Recycling of Load-Bearing 3D Printable Double Network Granular Hydrogels.. <i>Small</i> , <b>2022</b> , e2107128	11	3

14	Does the Size of Microgels Influence the Toughness of Microgel-Reinforced Hydrogels?. <i>Macromolecular Rapid Communications</i> , <b>2022</b> , e2200196	4.8	3
13	Reply to the Comment on "Robust scalable high throughput production of monodisperse drops" by M. Nakajima, <i>Lab Chip</i> , 2017, 17, DOI: 10.1039/C7LC00181A. <i>Lab on A Chip</i> , <b>2017</b> , 17, 2332-2333	7.2	2
12	Wasser: Wie beeinflusst es die CaCO <sub>3</sub> -Bildung?. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 1814-1833	3.6	2
11	Linear triglycerol-based fluorosurfactants show high potential for droplet-microfluidics-based biochemical assays. <i>Soft Matter</i> , <b>2021</b> , 17, 7260-7267	3.6	2
10	Stabilization and Characterization of Iron Oxide Superparamagnetic Core-Shell Nanoparticles for Biomedical Applications <b>2014</b> , 355-387		1
9	Controlling the calcium carbonate microstructure of engineered living building materials.. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 24438-24451	13	1
8	Everything in its right place: controlling the local composition of hydrogels using microfluidic traps. <i>Lab on A Chip</i> , <b>2020</b> , 20, 4572-4581	7.2	1
7	Reversible and Broad-Range Oxygen Sensing Based on Purely Organic Long-Lived Photoemitters. <i>ACS Applied Polymer Materials</i> , <b>2021</b> , 3, 2480-2488	4.3	1
6	From vesicles to materials: bioinspired strategies for fabricating hierarchically structured soft matter. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2021</b> , 379, 20200338	3	1
5	Succinic Acid Based Particles as Carriers of Volatile Substances. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2022</b> , 10, 2914-2920	8.3	1
4	Spray-Assisted Formation of Micrometer-Sized Emulsions.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2022</b> ,	9.5	1
3	Monodisperse Selectively Permeable Hydrogel Capsules Made from Single Emulsion Drops. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 15601-15609	9.5	0
2	Load-bearing hydrogels ionically reinforced through competitive ligand exchanges. <i>Biomaterials Science</i> , <b>2021</b> , 9, 6753-6762	7.4	0
1	Leveraging Liquid-Liquid Interfaces to Assemble Responsive Vesicles. <i>Chimia</i> , <b>2014</b> , 68, 819	1.3	