

Stephan Handschuh-Wang

List of Publications by Citations

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68

papers

2,056

citations

24

h-index

44

g-index

76

ext. papers

2,702

ext. citations

6.3

avg, IF

5.68

L-index

#	Paper	IF	Citations
68	Rational Fabrication of Anti-Freezing, Non-Drying Tough Organohydrogels by One-Pot Solvent Displacement. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 6568-6571	16.4	213
67	Liquid Metal-Based Transient Circuits for Flexible and Recyclable Electronics. <i>Advanced Functional Materials</i> , 2019 , 29, 1808739	15.6	138
66	Recent progress in fabrication and application of polydimethylsiloxane sponges. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 16467-16497	13	136
65	Liquid metal sponges for mechanically durable, all-soft, electrical conductors. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 1586-1590	7.1	103
64	Biomimetic anti-freezing polymeric hydrogels: keeping soft-wet materials active in cold environments. <i>Materials Horizons</i> , 2021 , 8, 351-369	14.4	85
63	Liquid Metal-Based Soft Microfluidics. <i>Small</i> , 2020 , 16, e1903841	11	84
62	Enzyme degradable polymersomes from hyaluronic acid-block-poly(ϵ -caprolactone) copolymers for the detection of enzymes of pathogenic bacteria. <i>Biomacromolecules</i> , 2015 , 16, 832-41	6.9	80
61	Liquid metal droplets with high elasticity, mobility and mechanical robustness. <i>Materials Horizons</i> , 2017 , 4, 591-597	14.4	70
60	Rational Fabrication of Anti-Freezing, Non-Drying Tough Organohydrogels by One-Pot Solvent Displacement. <i>Angewandte Chemie</i> , 2018 , 130, 6678-6681	3.6	60
59	Robust Fabrication of Nonstick, Noncorrosive, Conductive Graphene-Coated Liquid Metal Droplets for Droplet-Based, Floating Electrodes. <i>Advanced Functional Materials</i> , 2018 , 28, 1706277	15.6	57
58	Light-Induced Shape Morphing of Liquid Metal Nanodroplets Enabled by Polydopamine Coating. <i>Small</i> , 2019 , 15, e1804838	11	57
57	Robust Biomimetic Hierarchical Diamond Architecture with a Self-Cleaning, Antibacterial, and Antibiofouling Surface. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 24432-24441	9.5	49
56	Biomimetic Extreme-Temperature- and Environment-Adaptable Hydrogels. <i>ChemPhysChem</i> , 2019 , 20, 2139-2154	3.2	48
55	Surface Nanobubbles Studied by Time-Resolved Fluorescence Microscopy Methods Combined with AFM: The Impact of Surface Treatment on Nanobubble Nucleation. <i>Langmuir</i> , 2016 , 32, 11155-11163	4	44
54	Analysis and Transformations of Room-Temperature Liquid Metal Interfaces - A Closer Look through Interfacial Tension. <i>ChemPhysChem</i> , 2018 , 19, 1584-1592	3.2	42
53	"Freezing", morphing, and folding of stretchy tough hydrogels. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 5726-5732	7.3	38
52	Hydrophilic Sponges for Leaf-Inspired Continuous Pumping of Liquids. <i>Advanced Science</i> , 2017 , 4, 1700028	3.6	36

51	Defect-free, high resolution patterning of liquid metals using reversibly sealed, reusable polydimethylsiloxane microchannels for flexible electronic applications. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 6790-6797	7.1	33
50	Anisotropic liquid metal-elastomer composites. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 10166-10172	7.1	31
49	Softening and Shape Morphing of Stiff Tough Hydrogels by Localized Unlocking of the Trivalent Ionically Cross-Linked Centers. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1800143	4.8	30
48	Ultrathin Diamond Nanofilms-Development, Challenges, and Applications. <i>Small</i> , 2021 , 17, e2007529	11	27
47	Controlled surface chemistry of diamond/BSiC composite films for preferential protein adsorption. <i>Langmuir</i> , 2014 , 30, 1089-99	4	26
46	Electric Actuation of Liquid Metal Droplets in Acidified Aqueous Electrolyte. <i>Langmuir</i> , 2019 , 35, 372-381	4	26
45	Tough protein organohydrogels. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 7366-7372	7.3	24
44	Robust, multiscale liquid-metal patterning enabled by a sacrificial sealing layer for flexible and wearable wireless powering. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 15243-15251	7.1	23
43	Hierarchical Micro/Nanostructured Diamond Gradient Surface for Controlled Water Transport and Fog Collection. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100196	4.6	21
42	Enhancing the colloidal stability of detonation synthesized diamond particles in aqueous solutions by adsorbing organic mono-, bi- and tridentate molecules. <i>Journal of Colloid and Interface Science</i> , 2017 , 499, 102-109	9.3	20
41	The Effect of Size and Geometry of Poly(acrylamide) Brush-Based Micropatterns on the Behavior of Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 23591-603	9.5	20
40	Critical Review on the Physical Properties of Gallium-Based Liquid Metals and Selected Pathways for Their Alteration. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 20113-20142	3.8	20
39	Enhanced nucleation of diamond on three dimensional tools via stabilized colloidal nanodiamond in electrostatic self-assembly seeding process. <i>Journal of Colloid and Interface Science</i> , 2017 , 506, 543-552	9.3	19
38	Surface Tension of the Oxide Skin of Gallium-Based Liquid Metals. <i>Langmuir</i> , 2021 , 37, 9017-9025	4	18
37	Liquid Metal-Mediated Mechanochemical Polymerization. <i>Macromolecular Rapid Communications</i> , 2019 , 40, e1900537	4.8	18
36	Multimodal microscopy-based identification of surface nanobubbles. <i>Journal of Colloid and Interface Science</i> , 2019 , 547, 162-170	9.3	16
35	Bacterial Enzyme Responsive Polymersomes: A Closer Look at the Degradation Mechanism of PEG-block-PLA Vesicles. <i>Australian Journal of Chemistry</i> , 2014 , 67, 578	1.2	16
34	Recyclable, weldable, mechanically durable, and programmable liquid metal-elastomer composites. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 10953-10965	13	16

33	Thickness-Encoded Micropatterns in One-Component Thermoresponsive Polymer Brushes for Culture and Triggered Release of Pancreatic Tumor Cell Monolayers and Spheroids. <i>Langmuir</i> , 2018 , 34, 14670-14677	4	15
32	Detailed Study of BSA Adsorption on Micro- and Nanocrystalline Diamond/BSiC Composite Gradient Films by Time-Resolved Fluorescence Microscopy. <i>Langmuir</i> , 2017 , 33, 802-813	4	14
31	TiB2 barrier interlayer approach for HFCVD diamond deposition onto cemented carbide tools. <i>Diamond and Related Materials</i> , 2018 , 83, 126-133	3.5	14
30	Controlling Directional Liquid Motion on Micro- and Nanocrystalline Diamond/BSiC Composite Gradient Films. <i>Langmuir</i> , 2018 , 34, 1419-1428	4	14
29	Adherent and low friction nanocrystalline diamond films via adsorbing organic molecules in self-assembly seeding process. <i>Applied Surface Science</i> , 2018 , 456, 75-82	6.7	14
28	Interfacing of surfaces with gallium-based liquid metals [Approaches for mitigation and augmentation of liquid metal adhesion on surfaces. <i>Applied Materials Today</i> , 2020 , 21, 100868	6.6	14
27	Amphiphilic Block Copolymer Vesicles for Active Wound Dressings: Synthesis of Model Systems and Studies of Encapsulation and Release. <i>Macromolecular Symposia</i> , 2013 , 328, 73-79	0.8	13
26	Corrosion-Resistant Functional Diamond Coatings for Reliable Interfacing of Liquid Metals with Solid Metals. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 40891-40900	9.5	13
25	Polydimethylsiloxane/Nanodiamond Composite Sponge for Enhanced Mechanical or Wettability Performance. <i>Polymers</i> , 2019 , 11,	4.5	12
24	Recent advances in hybrid measurement methods based on atomic force microscopy and surface sensitive measurement techniques. <i>RSC Advances</i> , 2017 , 7, 47464-47499	3.7	11
23	Fluorimetric Detection of G-Quadruplex DNA in Solution and Adsorbed on Surfaces with a Selective Trinuclear Cyanine Dye. <i>Langmuir</i> , 2018 , 34, 11866-11877	4	11
22	Is There a Relationship between Surface Wettability of Structured Surfaces and Lyophobicity toward Liquid Metals?. <i>Materials</i> , 2020 , 13,	3.5	9
21	Determination of the Wall Thickness of Block Copolymer Vesicles by Fluorescence Lifetime Imaging Microscopy. <i>Macromolecular Chemistry and Physics</i> , 2017 , 218, 1600454	2.6	7
20	Impact of substrate temperature on the structure and electrical performance of vacuum-deposited P-DH5T oligothiophene thin films. <i>RSC Advances</i> , 2016 , 6, 115085-115091	3.7	7
19	Liquid metal droplets enabled soft robots. <i>Applied Materials Today</i> , 2022 , 27, 101423	6.6	7
18	Bioinspired, Mechano-Regulated Interfaces for Rationally Designed, Dynamically Controlled Collection of Oil Spills from Water. <i>Global Challenges</i> , 2017 , 1, 1600014	4.3	6
17	Giant Biodegradable Poly(ethylene glycol)-block-Poly(ϵ -caprolactone) Polymersomes by Electroformation. <i>Macromolecular Bioscience</i> , 2020 , 20, e2000014	5.5	6
16	Bioinspired Tough Organohydrogel Dynamic Interfaces Enabled Subzero Temperature Antifrosting, Deicing, and Antiadhesion. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 55501-55509	9.5	6

15	Unraveling the nanomechanical properties of surface-grafted conjugated polymer brushes with ladder-like architecture. <i>Polymer Chemistry</i> , 2020 , 11, 7050-7062	4.9	5
14	Site-Specific Oxidation-Induced Stiffening and Shape Morphing of Soft Tough Hydrogels. <i>Macromolecular Materials and Engineering</i> , 2019 , 304, 1800589	3.9	5
13	On the Interaction of Surfactants with Gallium-Based Liquid Metals. <i>ChemistrySelect</i> , 2021 , 6, 10625-10636	3.8	4
12	Fluorescence lifetime-based sensing of polymersome leakage. <i>Photochemical and Photobiological Sciences</i> , 2017 , 16, 155-158	4.2	2
11	Phase Transitions and Formation of a Monolayer-Type Structure in Thin Oligothiophene Films: Exploration with a Combined In Situ X-ray Diffraction and Electrical Measurements. <i>Nanoscale Research Letters</i> , 2019 , 14, 185	5	2
10	Multiple interval thixotropic test (miTT) – an advanced tool for the rheological characterization of emulsions and other colloidal systems. <i>Rheologica Acta</i> , 2022 , 61, 229-242	2.3	2
9	Elastic Sponges: Hydrophilic Sponges for Leaf-Inspired Continuous Pumping of Liquids (Adv. Sci. 6/2017). <i>Advanced Science</i> , 2017 , 4,	13.6	1
8	Analysis and Transformations of Room-Temperature Liquid Metal Interfaces – A Closer Look through Interfacial Tension. <i>ChemPhysChem</i> , 2018 , 19, 1551-1551	3.2	1
7	Liquid Metal Superelastic Fiber Mat Enabling Highly Permeable Wearable Electronics Toward Comfortable e-Skins. <i>Chemical Research in Chinese Universities</i> , 2021 , 37, 615-616	2.2	1
6	Superoleophilic-Hydrophobic Kapok Oil Sorbents via Energy Efficient Carbonization. <i>Journal of Natural Fibers</i> , 1-17	1.8	1
5	Self-Healable and Recyclable Dual-Shape Memory Liquid Metal/Elastomer Composites. <i>Polymers</i> , 2022 , 14, 2259	4.5	1
4	Leitfähig und verformbar – Flüssigmetalle. <i>Nachrichten Aus Der Chemie</i> , 2021 , 69, 69-72	0.1	0
3	Rapid synthesis and growth process deconvolution of Au nanoflowers with ultrahigh catalytic activity based on microfluidics. <i>Journal of Materials Science</i> , 2021 , 56, 6315-6326	4.3	0
2	Anti-Freezing, Non-Drying, Localized Stiffening, and Shape-Morphing Organohydrogels. <i>Gels</i> , 2022 , 8, 331	4.2	0
1	Liquid Metal Nanodroplets: Light-Induced Shape Morphing of Liquid Metal Nanodroplets Enabled by Polydopamine Coating (Small 9/2019). <i>Small</i> , 2019 , 15, 1970047	11	