Yongfeng Mei

List of Publications by Citations

304 papers	9,616 citations	49 h-index	86 g-index
345 ext. papers	10,840 ext. citations	7.8 avg, IF	6.33 L-index

#	Paper	IF	Citations
304	Catalytic microtubular jet engines self-propelled by accumulated gas bubbles. *Small*, **2009**, 5, 1688-92	11	548
303	Versatile Approach for Integrative and Functionalized Tubes by Strain Engineering of Nanomembranes on Polymers. *Advanced Materials*, **2008**, 20, 4085-4090	24	537
302	Rolled-up nanotech on polymers: from basic perception to self-propelled catalytic microengines. *Chemical Society Reviews*, **2011**, 40, 2109-19	58.5	515
301	Magnetic Control of Tubular Catalytic Microbots for the Transport, Assembly, and Delivery of Micro-objects. *Advanced Functional Materials*, **2010**, 20, 2430-2435	15.6	344
300	Stretchable graphene: a close look at fundamental parameters through biaxial straining. *Nano Letters*, **2010**, 10, 3453-8	11.5	275
299	Dynamics of biocatalytic microengines mediated by variable friction control. *Journal of the American Chemical Society*, **2010**, 132, 13144-5	16.4	219
298	Naturally rolled-up C/Si/C trilayer nanomembranes as stable anodes for lithium-ion batteries with remarkable cycling performance. *Angewandte Chemie - International Edition*, **2013**, 52, 2326-30	16.4	167
297	Strong blue emission from anodic alumina membranes with ordered nanopore array. *Journal of Applied Physics*, **2003**, 93, 582-585	2.5	138
296	Stretchable magnetoelectronics. *Nano Letters*, **2011**, 11, 2522-6	11.5	132
295	Materials capability and device performance in flexible electronics for the Internet of Things. *Journal of Materials Chemistry C*, **2014**, 2, 1220-1232	7.1	124
294	Self-supporting Si/Reduced Graphene Oxide nanocomposite films as anode for lithium ion batteries. *Electrochemistry Communications*, **2011**, 13, 1332-1335	5.1	122
293	Rolled-up transparent microtubes as two-dimensionally confined culture scaffolds of individual yeast cells. *Lab on A Chip*, **2009**, 9, 263-8	7.2	116
292	Principles and applications of micro and nanoscale wrinkles. *Materials Science and Engineering Reports*, **2010**, 70, 209-224	30.9	116
291	Towards Flexible Magnetoelectronics: Buffer-Enhanced and Mechanically Tunable GMR of Co/Cu Multilayers on Plastic Substrates. *Advanced Materials*, **2008**, 20, 3224-3228	24	101
290	Lab-in-a-tube: detection of individual mouse cells for analysis in flexible split-wall microtube resonator sensors. *Nano Letters*, **2011**, 11, 4037-42	11.5	95
289	Thinning and shaping solid films into functional and integrative nanomembranes. *Advanced Materials*, **2012**, 24, 2517-46	24	94
288	Dynamics of catalytic tubular microjet engines: dependence on geometry and chemical environment. *Nanoscale*, **2011**, 3, 5083-9	7.7	93

287	Sandwich-Stacked SnO2/Cu Hybrid Nanosheets as Multichannel Anodes for Lithium Ion Batteries. *ACS Nano*, **2013**, 7, 6948-54	16.7	92
286	Self-wound composite nanomembranes as electrode materials for lithium ion batteries. *Advanced Materials*, **2010**, 22, 4591-5	24	92
285	Combined surface plasmon and classical waveguiding through metamaterial fiber design. *Nano Letters*, **2010**, 10, 1-5	11.5	91
284	Rolled-up optical microcavities with subwavelength wall thicknesses for enhanced liquid sensing applications. *ACS Nano*, **2010**, 4, 3123-30	16.7	88
283	Mechanical Self-Assembly of a Strain-Engineered Flexible Layer: Wrinkling, Rolling, and Twisting. *Physical Review Applied*, **2016**, 5,	4.3	85
282	Optical microcavities with tubular geometry: properties and applications. *Laser and Photonics Reviews*, **2014**, 8, 521-547	8.3	82
281	Fabrication, self-assembly, and properties of ultrathin AlN/GaN porous crystalline nanomembranes: tubes, spirals, and curved sheets. *ACS Nano*, **2009**, 3, 1663-8	16.7	82
280	Lab-in-a-tube: ultracompact components for on-chip capture and detection of individual micro-/nanoorganisms. *Lab on A Chip*, **2012**, 12, 1917-31	7.2	81
279	Tubular Micro/Nanomachines: From the Basics to Recent Advances. *Advanced Functional Materials*, **2018**, 28, 1705872	15.6	80
278	Dry-released nanotubes and nanoengines by particle-assisted rolling. *Advanced Materials*, **2013**, 25, 3715-21	24	71
277	Tunable catalytic tubular micro-pumps operating at low concentrations of hydrogen peroxide. *Physical Chemistry Chemical Physics*, **2011**, 13, 10131-5	3.6	69
276	Current transport studies of ZnO/n-Si heterostructures grown by plasma immersion ion implantation and deposition. *Applied Physics Letters*, **2006**, 88, 132104	3.4	69
275	Spherical growth and surface-quasifree vibrations of Si nanocrystallites in Er-doped Si nanostructures. *Physical Review Letters*, **2001**, 86, 3000-3	7.4	67
274	Self-organized synthesis of silver dendritic nanostructures via an electroless metal deposition method. *Applied Physics A: Materials Science and Processing*, **2005**, 81, 669-671	2.6	65
273	Multilevel surface engineering of nanostructured TiO2 on carbon-fiber-reinforced polyetheretherketone. *Biomaterials*, **2014**, 35, 5731-40	15.6	64
272	Rolling up graphene oxide sheets into micro/nanoscrolls by nanoparticle aggregation. *Journal of Materials Chemistry*, **2012**, 22, 17441		63
271	Formation mechanism of alumina nanotube array. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2003**, 309, 109-113	2.3	63
270	Dissolution of Monocrystalline Silicon Nanomembranes and Their Use as Encapsulation Layers and Electrical Interfaces in Water-Soluble Electronics. *ACS Nano*, **2017**, 11, 12562-12572	16.7	61

269	A magnesiothermic reaction process for the scalable production of mesoporous silicon for rechargeable lithium batteries. *Chemical Communications*, **2013**, 49, 6743-5	5.8	61
268	Anodic alumina template on Au/Si substrate and preparation of CdS nanowires. *Solid State Communications*, **2002**, 123, 279-282	1.6	61
267	From Si nanotubes to nanowires: Synthesis, characterization, and self-assembly. *Journal of Crystal Growth*, **2005**, 277, 143-148	1.6	61
266	Process integration of microtubes for fluidic applications. *Applied Physics Letters*, **2006**, 89, 223507	3.4	60
265	Bending and wrinkling as competing relaxation pathways for strained free-hanging films. *Physical Review B*, **2009**, 79,	3.3	58
264	Strongly coupled semiconductor microcavities: A route to couple artificial atoms over micrometric distances. *Physical Review B*, **2008**, 77,	3.3	57
263	Material considerations and locomotive capability in catalytic tubular microengines. *Journal of Materials Chemistry*, **2012**, 22, 6519		56
262	Formation of Si Hollow Structures as Promising Anode Materials through Reduction of Silica in AlCl-NaCl Molten Salt. *ACS Nano*, **2018**, 12, 11481-11490	16.7	55
261	Optical properties of rolled-up tubular microcavities from shaped nanomembranes. *Applied Physics Letters*, **2009**, 94, 141901	3.4	53
260	Self-rolling and light-trapping in flexible quantum well-embedded nanomembranes for wide-angle infrared photodetectors. *Science Advances*, **2016**, 2, e1600027	14.3	52
259	Catalytic microstrider at the air-liquid interface. *Advanced Materials*, **2010**, 22, 4340-4	24	52
258	Optical emission from excess Si defect centers in Si nanostructures. *Physical Review Letters*, **2003**, 91, 157402	7.4	52
257	Naturally Rolled-Up C/Si/C Trilayer Nanomembranes as Stable Anodes for Lithium-Ion Batteries with Remarkable Cycling Performance. *Angewandte Chemie*, **2013**, 125, 2382-2386	3.6	51
256	Optical properties of a wrinkled nanomembrane with embedded quantum well. *Nano Letters*, **2007**, 7, 1676-9	11.5	49
255	Three-dimensional carbon/ZnO nanomembrane foam as an anode for lithium-ion battery with long-life and high areal capacity. *Journal of Materials Chemistry A*, **2018**, 6, 7227-7235	13	48
254	Semiconductor Sub-Micro-/ Nanochannel Networks by Deterministic Layer Wrinkling. *Advanced Materials*, **2007**, 19, 2124-2128	24	48
253	Facile design of ultra-thin anodic aluminum oxide membranes for the fabrication of plasmonic nanoarrays. *Nanotechnology*, **2017**, 28, 105301	3.4	47
252	Giant persistent photoconductivity in rough silicon nanomembranes. *Nano Letters*, **2009**, 9, 3453-9	11.5	47

251	Morphological Differentiation of Neurons on Microtopographic Substrates Fabricated by Rolled-Up Nanotechnology. *Advanced Engineering Materials*, **2010**, 12, B558-B564	3.5	47
250	Nanoconfined Atomic Layer Deposition of TiO2/Pt Nanotubes: Toward Ultrasmall Highly Efficient Catalytic Nanorockets. *Advanced Functional Materials*, **2017**, 27, 1700598	15.6	46
249	Swiss roll nanomembranes with controlled proton diffusion as redox micro-supercapacitors. *Chemical Communications*, **2010**, 46, 3881-3	5.8	46
248	Surface modification of polymeric materials by plasma immersion ion implantation. *Nuclear Instruments & Methods in Physics Research B*, **2005**, 237, 417-421	1.2	46
247	Deterministic Self-Rolling of Ultrathin Nanocrystalline Diamond Nanomembranes for 3D Tubular/Helical Architecture. *Advanced Materials*, **2017**, 29, 1604572	24	44
246	ZnO Nanomembrane/Expanded Graphite Composite Synthesized by Atomic Layer Deposition as Binder-Free Anode for Lithium Ion Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 38522-38529	8.5	44
245	Thin, Transferred Layers of Silicon Dioxide and Silicon Nitride as Water and Ion Barriers for Implantable Flexible Electronic Systems. *Advanced Electronic Materials*, **2017**, 3, 1700077	6.4	44
244	System investigation of a rolled-up metamaterial optical hyperlens structure. *Applied Physics Letters*, **2009**, 95, 083104	3.4	44
243	Reconfigurable Vanadium Dioxide Nanomembranes and Microtubes with Controllable Phase Transition Temperatures. *Nano Letters*, **2018**, 18, 3017-3023	11.5	43
242	Characteristics and surface energy of silicon-doped diamond-like carbon films fabricated by plasma immersion ion implantation and deposition. *Diamond and Related Materials*, **2006**, 15, 1276-1281	3.5	43
241	Surface composition and surface energy of Teflon treated by metal plasma immersion ion implantation. *Surface Science*, **2004**, 573, 426-432	1.8	43
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236	Geometry Design, Principles and Assembly of Micromotors. *Micromachines*, **2018**, 9,	3.3	41
235	A single rolled-up Si tube battery for the study of electrochemical kinetics, electrical conductivity, and structural integrity. *Advanced Materials*, **2014**, 26, 7973-8	24	41
234	Optical resonance tuning and polarization of thin-walled tubular microcavities. *Optics Letters*, **2009**, 34, 2345-7	3	41

233	Assembly and Self-Assembly of Nanomembrane Materials-From 2D to 3D. *Small*, **2018**, 14, e1703665	11	40
232	Thermal stability of metal-doped diamond-like carbon fabricated by dual plasma deposition. *Diamond and Related Materials*, **2005**, 14, 1489-1493	3.5	40
231	Two-Step Oxidation of Mxene in the Synthesis of Layer-Stacked Anatase Titania with Enhanced Lithium-Storage Performance. *ChemElectroChem*, **2016**, 3, 871-876	4.3	40
230	Dynamic molecular processes detected by microtubular opto-chemical sensors self-assembled from prestrained nanomembranes. *Advanced Materials*, **2013**, 25, 2357-61	24	39
229	Origami Biosystems: 3D Assembly Methods for Biomedical Applications. *Advanced Biology*, **2018**, 2, 1800230	3.3	39
228	Hierarchical nanoporous microtubes for high-speed catalytic microengines. *NPG Asia Materials*, **2014**, 6, e94-e94	10.3	38
227	Elastic magnetic sensor with isotropic sensitivity for in-flow detection of magnetic objects. *RSC Advances*, **2012**, 2, 2284	3.7	37
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223	A Bioresorbable Magnetically Coupled System for Low-Frequency Wireless Power Transfer. *Advanced Functional Materials*, **2019**, 29, 1905451	15.6	35
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221	Integrative optofluidic microcavity with tubular channels and coupled waveguides via two-photon polymerization. *Lab on A Chip*, **2016**, 16, 4406-4414	7.2	33
220	Ultrathin Trilayer Assemblies as Long-Lived Barriers against Water and Ion Penetration in Flexible Bioelectronic Systems. *ACS Nano*, **2018**, 12, 10317-10326	16.7	33
219	Atomic layer deposition synthesized ZnO nanomembranes: A facile route towards stable supercapacitor electrode for high capacitance. *Journal of Power Sources*, **2020**, 451, 227740	8.9	32
218	Stimuli-responsive and on-chip nanomembrane micro-rolls for enhanced macroscopic visual hydrogen detection. *Science Advances*, **2018**, 4, eaap8203	14.3	32
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215	Enhanced ultraviolet photoluminescence from SiO2/Ge:SiO2/SiO2 sandwiched structure. *Applied Physics Letters*, **2000**, 77, 3134-3136	3.4	29
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212	Bioinspired Geometry-Switchable Janus Nanofibers for Eye-Readable H2 Sensors. *Advanced Functional Materials*, **2017**, 27, 1701618	15.6	28
211	Synthesis and optical properties of germanium nanorod array fabricated on porous anodic alumina and Si-based templates. *Applied Physics Letters*, **2005**, 86, 021111	3.4	28
210	Bendable Photodetector on Fibers Wrapped with Flexible Ultrathin Single Crystalline Silicon Nanomembranes. *ACS Applied Materials & Interfaces*, **2017**, 9, 12171-12175	9.5	27
209	Hydrogel microcapsules with photocatalytic nanoparticles for removal of organic pollutants. *Environmental Science: Nano*, **2020**, 7, 656-664	7.1	27
208	Rolling up MoSe Nanomembranes as a Sensitive Tubular Photodetector. *Small*, **2019**, 15, e1902528	11	26
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202	Miniaturized electromechanical devices for the characterization of the biomechanics of deep tissue. *Nature Biomedical Engineering*, **2021**, 5, 759-771	19	25
201	Anisotropic Rolling and Controlled Chirality of Nanocrystalline Diamond Nanomembranes toward Biomimetic Helical Frameworks. *Nano Letters*, **2018**, 18, 3688-3694	11.5	24
200	One body, two hands: photocatalytic function- and Fenton effect-integrated light-driven micromotors for pollutant degradation. *Nanoscale*, **2019**, 11, 16592-16598	7.7	23
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198	Room-temperature electrosynthesized ZnO thin film with strong (002) orientation and its optical properties. *Applied Surface Science*, **2006**, 252, 2973-2977	6.7	22

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193	Ferroelectric Enhanced Performance of a GeSn/Ge Dual-Nanowire Photodetector. *Nano Letters*, **2020**, 20, 3872-3879	11.5	21
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191	Exploring Rolled-up Au/Ag Bimetallic Microtubes for Surface-Enhanced Raman Scattering Sensor. *Journal of Physical Chemistry C*, **2012**, 116, 25504-25508	3.8	21
190	Tuning of optical resonances in asymmetric microtube cavities. *Optics Letters*, **2011**, 36, 3840-2	3	21
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188	Angular position detection of single nanoparticles on rolled-up optical microcavities with lifted degeneracy. *Physical Review A*, **2013**, 88,	2.6	20
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178	Nanoparticle-Shelled Catalytic Bubble Micromotor. *Advanced Materials Interfaces*, **2020**, 7, 1901583	4.6	18
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176	Liquid sensing capability of rolled-up tubular optical microcavities: a theoretical study. *Lab on A Chip*, **2012**, 12, 3798-802	7.2	17
175	Novel Flexible Material-Based Unobtrusive and Wearable Body Sensor Networks for Vital Sign Monitoring. *IEEE Sensors Journal*, **2019**, 19, 8502-8513	4	17
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173	Grating-structured metallic microsprings. *Nanoscale*, **2014**, 6, 9428-35	7.7	16
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171	Biocompatible and freestanding anatase TiO2 nanomembrane with enhanced photocatalytic performance. *Nanotechnology*, **2013**, 24, 305706	3.4	16
170	Optical resonances in tubular microcavities with subwavelength wall thicknesses. *Applied Physics Letters*, **2011**, 99, 211104	3.4	16
169	Atomic layer deposited nanostructures and their applications in energy storage and sensing. *Journal of Materials Research*, **2020**, 35, 701-719	2.5	16
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148	Rolled-Up Monolayer Graphene Tubular Micromotors: Enhanced Performance and Antibacterial Property. *Chemistry - an Asian Journal*, **2019**, 14, 2479-2484	4.5	13
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145	Micro-Bio-Chemo-Mechanical-Systems: Micromotors, Microfluidics, and Nanozymes for Biomedical Applications. *Advanced Materials*, **2021**, 33, e2007465	24	12
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141	Silicon nanomembrane phototransistor flipped with multifunctional sensors toward smart digital dust. *Science Advances*, **2020**, 6, eaaz6511	14.3	11
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