

# David H Gracias

## List of Publications by Year in descending order

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208  
papers

12,908  
citations

20759

60  
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24915

109  
g-index

224  
all docs

224  
docs citations

224  
times ranked

11599  
citing authors

#	ARTICLE	IF	CITATIONS
1	3D Printed Bionic Ears. Nano Letters, 2013, 13, 2634-2639.	4.5	762
2	Self-Folding Thermo-Magnetically Responsive Soft Microgrippers. ACS Applied Materials & Interfaces, 2015, 7, 3398-3405.	4.0	499
3	Forming Electrical Networks in Three Dimensions by Self-Assembly. Science, 2000, 289, 1170-1172.	6.0	464
4	Fabrication of a Cylindrical Display by Patterned Assembly. Science, 2002, 296, 323-325.	6.0	426
5	Self-Propelled Nanotools. ACS Nano, 2012, 6, 1751-1756.	7.3	398
6	Tetherless thermobiochemically actuated microgrippers. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 703-708.	3.3	366
7	DNA sequence-directed shape change of photopatterned hydrogels via high-degree swelling. Science, 2017, 357, 1126-1130.	6.0	331
8	Origami MEMS and NEMS. MRS Bulletin, 2016, 41, 123-129.	1.7	253
9	Self-folding polymeric containers for encapsulation and delivery of drugs. Advanced Drug Delivery Reviews, 2012, 64, 1579-1589.	6.6	240
10	Three-Dimensional Fabrication at Small Size Scales. Small, 2010, 6, 792-806.	5.2	236
11	Rolled-up magnetic microdrillers: towards remotely controlled minimally invasive surgery. Nanoscale, 2013, 5, 1294-1297.	2.8	232
12	Self-folding devices and materials for biomedical applications. Trends in Biotechnology, 2012, 30, 138-146.	4.9	227
13	Differentially photo-crosslinked polymers enable self-assembling microfluidics. Nature Communications, 2011, 2, 527.	5.8	219
14	Biopsy with Thermally-Responsive Untethered Microtools. Advanced Materials, 2013, 25, 514-519.	11.1	217
15	Photolithographically patterned smart hydrogel based bilayer actuators. Polymer, 2010, 51, 6093-6098.	1.8	214
16	Bio-Origami Hydrogel Scaffolds Composed of Photocrosslinked PEG Bilayers. Advanced Healthcare Materials, 2013, 2, 1142-1150.	3.9	210
17	Transformer Hydrogels: A Review. Advanced Materials Technologies, 2019, 4, 1900043.	3.0	207
18	Biopsy using a Magnetic Capsule Endoscope Carrying, Releasing, and Retrieving Untethered Microgrippers. IEEE Transactions on Biomedical Engineering, 2014, 61, 513-521.	2.5	201

#	ARTICLE	IF	CITATIONS
19	Stimuli-Responsive Theragrippers for Chemomechanical Controlled Release. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8045-8049.	7.2	198
20	Stimuli responsive self-folding using thin polymer films. <i>Current Opinion in Chemical Engineering</i> , 2013, 2, 112-119.	3.8	160
21	Fabrication of Micrometer-Scale, Patterned Polyhedra by Self-Assembly. <i>Advanced Materials</i> , 2002, 14, 235-238.	11.1	159
22	Self-folding micropatterned polymeric containers. <i>Biomedical Microdevices</i> , 2011, 13, 51-58.	1.4	152
23	Surface Tension-Driven Self-Folding Polyhedra. <i>Langmuir</i> , 2007, 23, 8747-8751.	1.6	150
24	Nanoscale Origami for 3D Optics. <i>Small</i> , 2011, 7, 1943-1948.	5.2	145
25	Ultrathin thermoresponsive self-folding 3D graphene. <i>Science Advances</i> , 2017, 3, e1701084.	4.7	144
26	Self-Folding Single Cell Grippers. <i>Nano Letters</i> , 2014, 14, 4164-4170.	4.5	141
27	Functional stimuli responsive hydrogel devices by self-folding. <i>Smart Materials and Structures</i> , 2014, 23, 094008.	1.8	137
28	Microassembly based on hands free origami with bidirectional curvature. <i>Applied Physics Letters</i> , 2009, 95, 91901.	1.5	136
29	Micropatterned agarose gels for stamping arrays of proteins and gradients of proteins. <i>Proteomics</i> , 2004, 4, 2366-2376.	1.3	127
30	Kinetics of Ultraviolet and Plasma Surface Modification of Poly(dimethylsiloxane) Probed by Sum Frequency Vibrational Spectroscopy. <i>Langmuir</i> , 2006, 22, 1863-1868.	1.6	124
31	Self-folding thin-film materials: From nanopolyhedra to graphene origami. <i>MRS Bulletin</i> , 2012, 37, 847-854.	1.7	113
32	Enzymatically Triggered Actuation of Miniaturized Tools. <i>Journal of the American Chemical Society</i> , 2010, 132, 16314-16317.	6.6	112
33	Molecular Characterization of Polymer and Polymer Blend Surfaces. Combined Sum Frequency Generation Surface Vibrational Spectroscopy and Scanning Force Microscopy Studies. <i>Accounts of Chemical Research</i> , 1999, 32, 930-940.	7.6	107
34	Thin Film Stress Driven Self-Folding of Microstructured Containers. <i>Small</i> , 2008, 4, 1605-1609.	5.2	105
35	Pick-and-Place Using Chemically Actuated Microgrippers. <i>Journal of the American Chemical Society</i> , 2008, 130, 17238-17239.	6.6	102
36	Dual-Gel 4D Printing of Bioinspired Tubes. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 8492-8498.	4.0	100

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37	Self-Assembly of Lithographically Patterned Nanoparticles. <i>Nano Letters</i> , 2009, 9, 4049-4052.	4.5	98
38	Stimuli-Responsive Soft Untethered Grippers for Drug Delivery and Robotic Surgery. <i>Frontiers in Mechanical Engineering</i> , 2017, 3, .	0.8	97
39	Continuum Force Microscopy Study of the Elastic Modulus, Hardness and Friction of Polyethylene and Polypropylene Surfaces. <i>Macromolecules</i> , 1998, 31, 1269-1276.	2.2	95
40	Algorithmic design of self-folding polyhedra. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 19885-19890.	3.3	94
41	Substrate-directed synthesis of MoS <sub>2</sub> nanocrystals with tunable dimensionality and optical properties. <i>Nature Nanotechnology</i> , 2020, 15, 29-34.	15.6	94
42	Biomimetic self-assembly of a functional asymmetrical electronic device. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 4937-4940.	3.3	88
43	Directed growth of fibroblasts into three dimensional micropatterned geometries via self-assembling scaffolds. <i>Biomaterials</i> , 2010, 31, 1683-1690.	5.7	87
44	3D lithographically fabricated nanoliter containers for drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2007, 59, 1547-1561.	6.6	80
45	Probing Organic Field Effect Transistors In Situ during Operation Using SFG. <i>Journal of the American Chemical Society</i> , 2006, 128, 6528-6529.	6.6	78
46	Solvent Driven Motion of Lithographically Fabricated Gels. <i>Langmuir</i> , 2008, 24, 12158-12163.	1.6	78
47	Interaction of fibrinogen with surfaces of end-group-modified polyurethanes: A surface-specific sum-frequency-generation vibrational spectroscopy study. <i>Journal of Biomedical Materials Research Part B</i> , 2002, 62, 254-264.	3.0	76
48	Enabling Cargo-Carrying Bacteria via Surface Attachment and Triggered Release. <i>Small</i> , 2011, 7, 588-592.	5.2	74
49	Spatially Controlled Chemistry Using Remotely Guided Nanoliter Scale Containers. <i>Journal of the American Chemical Society</i> , 2006, 128, 11336-11337.	6.6	71
50	Mechanical Trap Surface-Enhanced Raman Spectroscopy for Three-Dimensional Surface Molecular Imaging of Single Live Cells. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3822-3826.	7.2	71
51	Biodegradable Thermomagnetically Responsive Soft Untethered Grippers. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 151-159.	4.0	70
52	Lithographic Fabrication of Model Systems in Heterogeneous Catalysis and Surface Science Studies. <i>Langmuir</i> , 1998, 14, 1458-1464.	1.6	69
53	Gastrointestinal-resident, shape-changing microdevices extend drug release in vivo. <i>Science Advances</i> , 2020, 6, .	4.7	69
54	A study of the glass transition of polypropylene surfaces by sum-frequency vibrational spectroscopy and scanning force microscopy. <i>Chemical Physics</i> , 1999, 245, 277-284.	0.9	67

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55	3D Printing of an <i>In Situ</i> Grown MOF Hydrogel with Tunable Mechanical Properties. ACS Applied Materials & Interfaces, 2020, 12, 33267-33275.	4.0	67
56	Three-dimensional microwell arrays for cell culture. Lab on A Chip, 2011, 11, 127-131.	3.1	66
57	Rolled-up Functionalized Nanomembranes as Three-Dimensional Cavities for Single Cell Studies. Nano Letters, 2014, 14, 4197-4204.	4.5	65
58	Self-Assembled Three Dimensional Radio Frequency (RF) Shielded Containers for Cell Encapsulation. Biomedical Microdevices, 2005, 7, 341-345.	1.4	64
59	3D printing and characterization of a soft and biostable elastomer with high flexibility and strength for biomedical applications. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 104, 103649.	1.5	64
60	Integrating nanowires with substrates using directed assembly and nanoscale soldering. IEEE Nanotechnology Magazine, 2006, 5, 62-66.	1.1	63
61	Toward a miniaturized mechanical surgeon. Materials Today, 2009, 12, 14-20.	8.3	63
62	Self-loading lithographically structured microcontainers: 3D patterned, mobile microwells. Lab on A Chip, 2008, 8, 1621.	3.1	62
63	Curving Nanostructures Using Extrinsic Stress. Advanced Materials, 2010, 22, 2320-2324.	11.1	62
64	Autonomous planning and control of soft untethered grippers in unstructured environments. Journal of Micro-Bio Robotics, 2017, 12, 45-52.	2.1	61
65	Laser triggered sequential folding of microstructures. Applied Physics Letters, 2012, 101, .	1.5	60
66	Self-folding graphene-polymer bilayers. Applied Physics Letters, 2015, 106, .	1.5	60
67	Three Dimensional Nanofabrication Using Surface Forces. Langmuir, 2010, 26, 16534-16539.	1.6	59
68	Sum frequency generation (SFG) - surface vibrational spectroscopy studies of buried interfaces: catalytic reaction intermediates on transition metal crystal surfaces at high reactant pressures; polymer surface structures at the solid-gas and solid-liquid interfaces. Applied Physics B: Lasers and Optics, 1999, 68, 549-557.	1.1	57
69	Steering and Control of Miniaturized Untethered Soft Magnetic Grippers With Haptic Assistance. IEEE Transactions on Automation Science and Engineering, 2018, 15, 290-306.	3.4	57
70	Origami Biosystems: 3D Assembly Methods for Biomedical Applications. Advanced Biology, 2018, 2, 1800230.	3.0	57
71	Dielectrophoretic assembly of reversible and irreversible metal nanowire networks and vertically aligned arrays. Applied Physics Letters, 2006, 88, 233118.	1.5	56
72	Microchemomechanical Systems. Advanced Functional Materials, 2011, 21, 2395-2410.	7.8	56

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73	Reversible Actuation of Microstructures by Surfaceâ€Chemical Modification of Thinâ€Film Bilayers. <i>Advanced Materials</i> , 2010, 22, 407-410.	11.1	55
74	Voltage-Gated Ion Transport through Semiconducting Conical Nanopores Formed by Metal Nanoparticle-Assisted Plasma Etching. <i>Nano Letters</i> , 2012, 12, 3437-3442.	4.5	55
75	Surface Studies of Polymer Blends by Sum Frequency Vibrational Spectroscopy, Atomic Force Microscopy, and Contact Angle Goniometry. <i>Journal of Physical Chemistry B</i> , 1998, 102, 6225-6230.	1.2	54
76	Active matter therapeutics. <i>Nano Today</i> , 2020, 31, 100836.	6.2	54
77	Patterning Thin Film Mechanical Properties to Drive Assembly of Complex 3D Structures. <i>Advanced Materials</i> , 2008, 20, 4760-4764.	11.1	53
78	Untethered Single Cell Grippers for Active Biopsy. <i>Nano Letters</i> , 2020, 20, 5383-5390.	4.5	53
79	Hyperthermia with Magnetic Nanowires for Inactivating Living Cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 2323-2327.	0.9	51
80	Patternable Nanowire Sensors for Electrochemical Recording of Dopamine. <i>Analytical Chemistry</i> , 2009, 81, 9979-9984.	3.2	50
81	Self-Folding Hybrid Graphene Skin for 3D Biosensing. <i>Nano Letters</i> , 2019, 19, 1409-1417.	4.5	49
82	Self-Assembly Based on Chromium/Copper Bilayers. <i>Journal of Microelectromechanical Systems</i> , 2009, 18, 784-791.	1.7	46
83	Label-Free Spectroscopic SARS-CoV-2 Detection on Versatile Nanoimprinted Substrates. <i>Nano Letters</i> , 2022, 22, 3620-3627.	4.5	46
84	Ultrathin Shape Change Smart Materials. <i>Accounts of Chemical Research</i> , 2018, 51, 436-444.	7.6	45
85	Soft Three-Dimensional Robots with Hard Two-Dimensional Materials. <i>ACS Nano</i> , 2019, 13, 4883-4892.	7.3	45
86	Direct Ink Writing of Poly(tetrafluoroethylene) (PTFE) with Tunable Mechanical Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 28289-28295.	4.0	42
87	Reversible MoS <sub>2</sub> Origami with Spatially Resolved and Reconfigurable Photosensitivity. <i>Nano Letters</i> , 2019, 19, 7941-7949.	4.5	41
88	Multitemperature Responsive Selfâ€Folding Soft Biomimetic Structures. <i>Macromolecular Rapid Communications</i> , 2018, 39, 1700692.	2.0	40
89	Correlations between SFG Spectra and Electrical Properties of Organic Field Effect Transistors. <i>Journal of Physical Chemistry C</i> , 2007, 111, 13250-13255.	1.5	39
90	Self-folding immunoprotective cell encapsulation devices. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2011, 7, 686-689.	1.7	38

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91	Surface Tension Driven Self-Assembly of Bundles and Networks of 200 nm Diameter Rods Using a Polymerizable Adhesive. <i>Langmuir</i> , 2004, 20, 11308-11311.	1.6	36
92	Self-assembly of orthogonal three-axis sensors. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	36
93	A Self-Folding Hydrogel <i>In Vitro</i> Model for Ductal Carcinoma. <i>Tissue Engineering - Part C: Methods</i> , 2016, 22, 398-407.	1.1	36
94	Biomimetic self-assembly of helical electrical circuits using orthogonal capillary interactions. <i>Applied Physics Letters</i> , 2002, 80, 2802-2804.	1.5	35
95	The bonding of nanowire assemblies using adhesive and solder. <i>Jom</i> , 2005, 57, 60-64.	0.9	35
96	A Micropatterned Multielectrode Shell for 3D Spatiotemporal Recording from Live Cells. <i>Advanced Science</i> , 2018, 5, 1700731.	5.6	34
97	Three-Dimensional Electrically Interconnected Nanowire Networks Formed by Diffusion Bonding. <i>Langmuir</i> , 2007, 23, 979-982.	1.6	33
98	Compactness Determines the Success of Cube and Octahedron Self-Assembly. <i>PLoS ONE</i> , 2009, 4, e4451.	1.1	33
99	Reflow and Electrical Characteristics of Nanoscale Solder. <i>Small</i> , 2006, 2, 225-229.	5.2	32
100	Importance of Surface Patterns for Defect Mitigation in Three-Dimensional Self-Assembly. <i>Langmuir</i> , 2010, 26, 12534-12539.	1.6	31
101	Molecular Insights into Division of Single Human Cancer Cells in On-Chip Transparent Microtubes. <i>ACS Nano</i> , 2016, 10, 5835-5846.	7.3	31
102	Remote Radio-Frequency Controlled Nanoliter Chemistry and Chemical Delivery on Substrates. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 4991-4994.	7.2	30
103	Hierarchical self-assembly of complex polyhedral microcontainers. <i>Journal of Micromechanics and Microengineering</i> , 2009, 19, 075012.	1.5	30
104	Biologic Tissue Sampling With Untethered Microgrippers. <i>Gastroenterology</i> , 2013, 144, 691-693.	0.6	30
105	Transitions from nanoscale to microscale dynamic friction mechanisms on polyethylene and silicon surfaces. <i>Journal of Applied Physics</i> , 2000, 87, 3143-3150.	1.1	29
106	Plastic Deformation Drives Wrinkling, Saddling, and Wedging of Annular Bilayer Nanostructures. <i>Nano Letters</i> , 2010, 10, 5098-5102.	4.5	29
107	Nano-folded Gold Catalysts for Electroreduction of Carbon Dioxide. <i>Nano Letters</i> , 2019, 19, 9154-9159.	4.5	28
108	Limits of imaging with multilayer hyperbolic metamaterials. <i>Optics Express</i> , 2017, 25, 13588.	1.7	27

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109	Silane surface modification for improved bioadhesion of esophageal stents. <i>Applied Surface Science</i> , 2014, 311, 684-689.	3.1	26
110	Electrocatalytic Oxidation of Glycerol on Platinum. <i>Journal of Physical Chemistry C</i> , 2019, 123, 426-432.	1.5	26
111	Quantitative analysis of parallel nanowire array assembly by dielectrophoresis. <i>Nanoscale</i> , 2011, 3, 1059-1065.	2.8	25
112	Competition of intrinsic and topographically imposed patterns in Marangoni convection. <i>Applied Physics Letters</i> , 2001, 79, 439-441.	1.5	24
113	Three-Dimensional Chemical Patterns for Cellular Self-Organization. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 2549-2553.	7.2	24
114	Magnetic motion control and planning of untethered soft grippers using ultrasound image feedback. , 2017, 2017, 6156-6161.		24
115	Self-Folding Using Capillary Forces. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901677.	1.9	24
116	Three-dimensional surface current loops in terahertz responsive microarrays. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	21
117	Design, characterization and control of thermally-responsive and magnetically-actuated micro-grippers at the air-water interface. <i>PLoS ONE</i> , 2017, 12, e0187441.	1.1	20
118	Tetherless Microgrippers With Transponder Tags. <i>Journal of Microelectromechanical Systems</i> , 2011, 20, 505-511.	1.7	19
119	Origami Inspired Self-assembly of Patterned and Reconfigurable Particles. <i>Journal of Visualized Experiments</i> , 2013, , e50022.	0.2	19
120	Mechanical Trap Surface-Enhanced Raman Spectroscopy for Three-Dimensional Surface Molecular Imaging of Single Live Cells. <i>Angewandte Chemie</i> , 2017, 129, 3880-3884.	1.6	19
121	Control of untethered soft grippers for pick-and-place tasks. , 2016, 2016, 299-304.		18
122	Bidirectional and biaxial curving of thermoresponsive bilayer plates with soft and stiff segments. <i>Extreme Mechanics Letters</i> , 2017, 16, 6-12.	2.0	18
123	Periodic buckling of soft 3D printed bioinspired tubes. <i>Extreme Mechanics Letters</i> , 2019, 30, 100514.	2.0	18
124	Cell Viability and Noninvasive In Vivo MRI Tracking of 3D Cell Encapsulating Self-Assembled Microcontainers. <i>Cell Transplantation</i> , 2007, 16, 403-408.	1.2	17
125	Design for a Lithographically Patterned Bioartificial Endocrine Pancreas. <i>Artificial Organs</i> , 2013, 37, 1059-1067.	1.0	17
126	Biomimetic human small muscular pulmonary arteries. <i>Science Advances</i> , 2020, 6, eaaz2598.	4.7	16



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127	Magnetic Resonance Guided Navigation of Untethered Microgrippers. <i>Advanced Healthcare Materials</i> , 2021, 10, e2000869.	3.9	16
128	Building Polyhedra by Self-Assembly: Theory and Experiment. <i>Artificial Life</i> , 2014, 20, 409-439.	1.0	15
129	Size selective sampling using mobile, 3D nanoporous membranes. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 393, 1217-1224.	1.9	14
130	Chemistry with spatial control using particles and streams. <i>RSC Advances</i> , 2012, 2, 9707.	1.7	14
131	Multicomponent DNA Polymerization Motor Gels. <i>Small</i> , 2020, 16, e2002946.	5.2	14
132	SELF-ASSEMBLY OF THREE-DIMENSIONAL NANOPOROUS CONTAINERS. <i>Nano</i> , 2009, 04, 1-5.	0.5	13
133	Self-folding nanostructures with imprint patterned surfaces (SNIPS). <i>Faraday Discussions</i> , 2016, 191, 61-71.	1.6	13
134	Reconfigurable Microfluidics With Metallic Containers. <i>Journal of Microelectromechanical Systems</i> , 2008, 17, 265-271.	1.7	12
135	Directing Multicellular Organization by Varying the Aspect Ratio of Soft Hydrogel Microwells. <i>Advanced Science</i> , 2022, 9, e2104649.	5.6	12
136	Tissue Engineering: Bio-Inspired Origami Hydrogel Scaffolds Composed of Photocrosslinked PEG Bilayers (Adv.) <i>Tissue Engineering Part B: Reviews</i> , 2021, 27, 111-121.	3.9	11
137	Self-folding microcube antennas for wireless power transfer in dispersive media. <i>Technology</i> , 2016, 04, 120-129.	1.4	11
138	Patterning of Fibroblast and Matrix Anisotropy within 3D Confinement is Driven by the Cytoskeleton. <i>Advanced Healthcare Materials</i> , 2016, 5, 146-158.	3.9	11
139	Evaluation of an electromagnetic system with haptic feedback for control of untethered, soft grippers affected by disturbances. <i>IEEE Transactions on Robotics</i> , 2016, 32, 111-121.		11
140	Solvent Responsive Self-Folding of 3D Photosensitive Graphene Architectures. <i>Advanced Intelligent Systems</i> , 2023, 5, 2000195.	3.3	11
141	A Multi-Rate State Observer for Visual Tracking of Magnetic Micro-Agents Using 2D Slow Medical Imaging Modalities. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 111-121.		10
142	Bidirectional Propulsion of Arc-Shaped Microswimmers Driven by Precessing Magnetic Fields. <i>Advanced Intelligent Systems</i> , 2020, 2, 2000064.	3.3	10
143	Title is missing!. <i>Tribology Letters</i> , 1998, 4, 231-235.	1.2	9
144	MRI of regular-shaped cell-encapsulating polyhedral microcontainers. <i>Magnetic Resonance in Medicine</i> , 2007, 58, 1283-1287.	1.9	9

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145	Comparative Studies of Ethanol and Ethylene Glycol Oxidation on Platinum Electrocatalysts. Topics in Catalysis, 2018, 61, 1035-1042.	1.3	9
146	3D small antenna for energy harvesting applications on implantable micro-devices. , 2012, , .		8
147	Assembly of a 3D Cellular Computer Using Folded E-Blocks. Micromachines, 2016, 7, 78.	1.4	8
148	3D Hybrid Small Scale Devices. Small, 2018, 14, e1702497.	5.2	8
149	Self-Assembly of Mesoscale Isomers: The Role of Pathways and Degrees of Freedom. PLoS ONE, 2014, 9, e108960.	1.1	7
150	Hierarchically Curved Gelatin for 3D Biomimetic Cell Culture. ACS Applied Bio Materials, 2019, 2, 6004-6011.	2.3	7
151	Large-Area Arrays of Quasi-3D Au Nanostructures for Polarization-Selective Mid-Infrared Metasurfaces. ACS Applied Nano Materials, 2020, 3, 7029-7039.	2.4	7
152	On the tracks of carrier transport. Nature Photonics, 2007, 1, 570-571.	15.6	6
153	A one-step etching method to produce gold nanoparticle coated silicon microwells and microchannels. Analytical and Bioanalytical Chemistry, 2010, 398, 2949-2954.	1.9	6
154	A Three Dimensional Self-folding Package (SFP) for Electronics. Materials Research Society Symposia Proceedings, 2010, 1249, 1.	0.1	6
155	Pneumatic delivery of untethered microgrippers for minimally invasive biopsy. , 2017, 2017, 857-860.		6
156	A GPU-accelerated model-based tracker for untethered submillimeter grippers. Robotics and Autonomous Systems, 2018, 103, 111-121.	3.0	6
157	Fabrication and characterization of RF nanoantenna on a nanoliter-scale 3D microcontainer. Nanotechnology, 2011, 22, 455303.	1.3	5
158	Micro antennas for implantable medical devices. , 2013, , .		5
159	Curved and Folded Micropatterns in 3D Cell Culture and Tissue Engineering. Methods in Cell Biology, 2014, 121, 121-139.	0.5	5
160	Ultra-small energy harvesting microsystem for biomedical applications. , 2014, , .		5
161	A Chemical Display: Generating Animations by Controlled Diffusion from Porous Voxels. Advanced Functional Materials, 2015, 25, 3998-4004.	7.8	5
162	Force characterization and analysis of thin film actuators for untethered microdevices. AIP Advances, 2019, 9, .	0.6	5

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163	Forming low resistance nano-scale contacts using solder reflow. , 0, , .		4
164	Concentric ring pattern formation in heated chromium-gold thin films on silicon. Applied Physics Letters, 2008, 92, 211907.	1.5	4
165	Electrochemically grown rough-textured nanowires. Journal of Nanoparticle Research, 2010, 12, 1065-1072.	0.8	4
166	Initiation of nanoporous energetic silicon by optically-triggered, residual stress powered microactuators. , 2012, , .		4
167	A cellular architecture for self-assembled 3D computational devices. , 2013, , .		4
168	Sub-wavelength field enhancement in the mid-IR: photonics versus plasmonics versus phononics. Optics Letters, 2018, 43, 4465.	1.7	4
169	Interfacial adhesion of thin-film patterned interconnect structures. , 0, , .		3
170	Scanning surface-enhanced Raman spectroscopy of silver nanowires. , 2005, 5927, 337.		3
171	NANOWIRE ASSEMBLY AND INTEGRATION. , 2008, , 187-211.		3
172	Fabrication of 3D nanostructures with lithographically patterned surfaces by self-folding. Proceedings of SPIE, 2010, , .	0.8	3
173	Nanowire-based surface-enhanced Raman spectroscopy (SERS) for chemical warfare simulants. Proceedings of SPIE, 2012, , .	0.8	3
174	Janus and patchy nanoparticles: general discussion. Faraday Discussions, 2016, 191, 117-139.	1.6	3
175	Three dimensional self-assembly at the nanoscale. , 2013, , .		2
176	Integrated Nanotechnology 2.0: 3D, Smart, Flexible, and Dynamic [Highlights]. IEEE Nanotechnology Magazine, 2022, 16, 11-15.	0.9	2
177	Scanning surface-enhanced Raman spectroscopy (SERS) of chemical agent simulants on templated Au-Ag nanowire substrates. , 2009, , .		1
178	Nanofabrication: Curving Nanostructures Using Extrinsic Stress (Adv. Mater. 21/2010). Advanced Materials, 2010, 22, n/a-n/a.	11.1	1
179	Building 3D Nanostructured Devices by Self-Assembly. , 2011, , 1-28.		1
180	3D Nanofabrication: Nanoscale Origami for 3D Optics (Small 14/2011). Small, 2011, 7, 1850-1850.	5.2	1

#	ARTICLE	IF	CITATIONS
181	Dielectrophoretic assembly of ordered nanostructures: Harnessing thermal randomness and inter-particle interactions. , 2012, , .		1
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