

David H Gracias

List of Publications by Year in descending order

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208
papers

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citations

20759
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224
all docs

224
docs citations

224
times ranked

11599
citing authors

#	ARTICLE	IF	CITATIONS
1	Solvent Responsive Self-Folding of 3D Photosensitive Graphene Architectures. Advanced Intelligent Systems, 2023, 5, 2000195.	3.3	11
2	Integrated Nanotechnology 2.0: 3D, Smart, Flexible, and Dynamic [Highlights]. IEEE Nanotechnology Magazine, 2022, 16, 11-15.	0.9	2
3	Label-Free Spectroscopic SARS-CoV-2 Detection on Versatile Nanoimprinted Substrates. Nano Letters, 2022, 22, 3620-3627.	4.5	46
4	Directing Multicellular Organization by Varying the Aspect Ratio of Soft Hydrogel Microwells. Advanced Science, 2022, 9, e2104649.	5.6	12
5	Magnetic Resonance Guided Navigation of Untethered Microgrippers. Advanced Healthcare Materials, 2021, 10, e2000869.	3.9	16
6	Controlled Nanoscale Cracking of Graphene Ribbons by Polymer Shrinkage. ACS Applied Nano Materials, 2021, 4, 1529-1539.	2.4	0
7	Substrate-directed synthesis of MoS ₂ nanocrystals with tunable dimensionality and optical properties. Nature Nanotechnology, 2020, 15, 29-34.	15.6	94
8	Self-Folding Using Capillary Forces. Advanced Materials Interfaces, 2020, 7, 1901677.	1.9	24
9	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
10	Multicomponent DNA Polymerization Motor Gels. Small, 2020, 16, e2002946.	5.2	14
11	Gastrointestinal-resident, shape-changing microdevices extend drug release in vivo. Science Advances, 2020, 6, .	4.7	69
12	3D Nanowire Arrays by Nanoimprint lithography and Mechanical Buckling. , 2020, , .		0
13	Untethered Single Cell Grippers for Active Biopsy. Nano Letters, 2020, 20, 5383-5390.	4.5	53
14	Bidirectional Propulsion of Arc-Shaped Microswimmers Driven by Precessing Magnetic Fields. Advanced Intelligent Systems, 2020, 2, 2000064.	3.3	10
15	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
16	Active matter therapeutics. Nano Today, 2020, 31, 100836.	6.2	54
17	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
18	Biomimetic human small muscular pulmonary arteries. Science Advances, 2020, 6, eaaz2598.	4.7	16

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19	Direct Ink Writing of Poly(tetrafluoroethylene) (PTFE) with Tunable Mechanical Properties. ACS Applied Materials & Interfaces, 2019, 11, 28289-28295.	4.0	42
20	Force characterization and analysis of thin film actuators for untethered microdevices. AIP Advances, 2019, 9, .	0.6	5
21	Periodic buckling of soft 3D printed bioinspired tubes. Extreme Mechanics Letters, 2019, 30, 100514.	2.0	18
22	Reversible MoS ₂ Origami with Spatially Resolved and Reconfigurable Photosensitivity. Nano Letters, 2019, 19, 7941-7949.	4.5	41
23	Dual-Gel 4D Printing of Bioinspired Tubes. ACS Applied Materials & Interfaces, 2019, 11, 8492-8498.	4.0	100
24	Soft Three-Dimensional Robots with Hard Two-Dimensional Materials. ACS Nano, 2019, 13, 4883-4892.	7.3	45
25	Transformer Hydrogels: A Review. Advanced Materials Technologies, 2019, 4, 1900043.	3.0	207
26	Nano-folded Gold Catalysts for Electroreduction of Carbon Dioxide. Nano Letters, 2019, 19, 9154-9159.	4.5	28
27	Hierarchically Curved Gelatin for 3D Biomimetic Cell Culture. ACS Applied Bio Materials, 2019, 2, 6004-6011.	2.3	7
28	Self-Folding Hybrid Graphene Skin for 3D Biosensing. Nano Letters, 2019, 19, 1409-1417.	4.5	49
29	Electrocatalytic Oxidation of Glycerol on Platinum. Journal of Physical Chemistry C, 2019, 123, 426-432.	1.5	26
30	Biodegradable Thermomagnetically Responsive Soft Untethered Grippers. ACS Applied Materials & Interfaces, 2019, 11, 151-159.	4.0	70
31	Comparative Studies of Ethanol and Ethylene Glycol Oxidation on Platinum Electrocatalysts. Topics in Catalysis, 2018, 61, 1035-1042.	1.3	9
32	Ultrathin Shape Change Smart Materials. Accounts of Chemical Research, 2018, 51, 436-444.	7.6	45
33	Multitemperature Responsive Self-Folding Soft Biomimetic Structures. Macromolecular Rapid Communications, 2018, 39, 1700692.	2.0	40
34	A Micropatterned Multielectrode Shell for 3D Spatiotemporal Recording from Live Cells. Advanced Science, 2018, 5, 1700731.	5.6	34
35	Biosensing: A Micropatterned Multielectrode Shell for 3D Spatiotemporal Recording from Live Cells (Adv. Sci. 4/2018). Advanced Science, 2018, 5, 1870026.	5.6	1
36	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

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37	A GPU-accelerated model-based tracker for untethered submillimeter grippers. Robotics and Autonomous Systems, 2018, 103, 111-121.	3.0	6
38	Biosystem Assembly: Origami Biosystems: 3D Assembly Methods for Biomedical Applications (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.0	1
39	A Multi-Rate State Observer for Visual Tracking of Magnetic Micro-Agents Using 2D Slow Medical Imaging Modalities. , 2018, , .		10
40	Pollen inspired microscrapers for minimally invasive statistical tissue sampling. , 2018, , .		0
41	Sub-wavelength field enhancement in the mid-IR: photonics versus plasmonics versus phononics. Optics Letters, 2018, 43, 4465.	1.7	4
42	Origami Biosystems: 3D Assembly Methods for Biomedical Applications. Advanced Biology, 2018, 2, 1800230.	3.0	57
43	3D Hybrid Small Scale Devices. Small, 2018, 14, e1702497.	5.2	8
44	Sub-wavelength field enhancement in mid-IR: Photonics vs Plasmonics vs Phononics. , 2018, , .		0
45	Developing and characterizing human biomimetic arteriole for studying pulmonary hypertension. FASEB Journal, 2018, 32, 568.16.	0.2	0
46	Mechanical Trap Surface-Enhanced Raman Spectroscopy for Three-Dimensional Surface Molecular Imaging of Single Live Cells. Angewandte Chemie, 2017, 129, 3880-3884.	1.6	19
47	Mechanical Trap Surface-Enhanced Raman Spectroscopy for Three-Dimensional Surface Molecular Imaging of Single Live Cells. Angewandte Chemie - International Edition, 2017, 56, 3822-3826.	7.2	71
48	Autonomous planning and control of soft untethered grippers in unstructured environments. Journal of Micro-Bio Robotics, 2017, 12, 45-52.	2.1	61
49	Frontispiece: Mechanical Trap Surface-Enhanced Raman Spectroscopy for Three-Dimensional Surface Molecular Imaging of Single Live Cells. Angewandte Chemie - International Edition, 2017, 56, .	7.2	1
50	Frontispiz: Mechanical Trap Surface-Enhanced Raman Spectroscopy for Three-Dimensional Surface Molecular Imaging of Single Live Cells. Angewandte Chemie, 2017, 129, .	1.6	0
51	Ultrathin thermoresponsive self-folding 3D graphene. Science Advances, 2017, 3, e1701084.	4.7	144
52	DNA sequence-directed shape change of photopatterned hydrogels via high-degree swelling. Science, 2017, 357, 1126-1130.	6.0	331
53	Bidirectional and biaxial curving of thermoresponsive bilayer plates with soft and stiff segments. Extreme Mechanics Letters, 2017, 16, 6-12.	2.0	18
54	Magnetic motion control and planning of untethered soft grippers using ultrasound image feedback. , 2017, 2017, 6156-6161.		24

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55	Pneumatic delivery of untethered microgrippers for minimally invasive biopsy. , 2017, 2017, 857-860.		6
56	Limits of imaging with multilayer hyperbolic metamaterials. Optics Express, 2017, 25, 13588.	1.7	27
57	Stimuli-Responsive Soft Untethered Grippers for Drug Delivery and Robotic Surgery. Frontiers in Mechanical Engineering, 2017, 3, .	0.8	97
58	Design, characterization and control of thermally-responsive and magnetically-actuated micro-grippers at the air-water interface. PLoS ONE, 2017, 12, e0187441.	1.1	20
59	Imaging with multilayer hyperbolic metamaterials “ what are the limits?. , 2017, , .		0
60	Assembly of a 3D Cellular Computer Using Folded E-Blocks. Micromachines, 2016, 7, 78.	1.4	8
61	Self-folding microcube antennas for wireless power transfer in dispersive media. Technology, 2016, 04, 120-129.	1.4	11
62	Origami-Inspired 3D Assembly of Egg-Crate Shaped Metamaterials Using Stress and Surface Tension Forces. MRS Advances, 2016, 1, 1743-1748.	0.5	1
63	Model-based tracking of miniaturized grippers using Particle Swarm Optimization. , 2016, , .		1
64	Control of untethered soft grippers for pick-and-place tasks. , 2016, 2016, 299-304.		18
65	Origami MEMS and NEMS. MRS Bulletin, 2016, 41, 123-129.	1.7	253
66	Patterned soft-micropolyhedra by self-folding and molding. , 2016, , .		0
67	Patterning of Fibroblast and Matrix Anisotropy within 3D Confinement is Driven by the Cytoskeleton. Advanced Healthcare Materials, 2016, 5, 146-158.	3.9	11
68	Janus and patchy nanoparticles: general discussion. Faraday Discussions, 2016, 191, 117-139.	1.6	3
69	Evaluation of an electromagnetic system with haptic feedback for control of untethered, soft grippers affected by disturbances. , 2016, , .		11
70	Molecular Insights into Division of Single Human Cancer Cells in On-Chip Transparent Microtubes. ACS Nano, 2016, 10, 5835-5846.	7.3	31
71	A Self-Folding Hydrogel <i>In Vitro</i> Model for Ductal Carcinoma. Tissue Engineering - Part C: Methods, 2016, 22, 398-407.	1.1	36
72	Self-folding nanostructures with imprint patterned surfaces (SNIPS). Faraday Discussions, 2016, 191, 61-71.	1.6	13

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73	Rolled-up nanoporous membranes by nanoimprint lithography and strain engineering. , 2015, , .		0
74	Controlled Release: A Chemical Display: Generating Animations by Controlled Diffusion from Porous Voxels (Adv. Funct. Mater. 26/2015). Advanced Functional Materials, 2015, 25, 3982-3982.	7.8	1
75	A Chemical Display: Generating Animations by Controlled Diffusion from Porous Voxels. Advanced Functional Materials, 2015, 25, 3998-4004.	7.8	5
76	Self-Folding Thermo-Magnetically Responsive Soft Microgrippers. ACS Applied Materials & Interfaces, 2015, 7, 3398-3405.	4.0	499
77	Self-folding graphene-polymer bilayers. Applied Physics Letters, 2015, 106, .	1.5	60
78	Self-Assembly of Mesoscale Isomers: The Role of Pathways and Degrees of Freedom. PLoS ONE, 2014, 9, e108960.	1.1	7
79	Curved and Folded Micropatterns in 3D Cell Culture and Tissue Engineering. Methods in Cell Biology, 2014, 121, 121-139.	0.5	5
80	Ultra-small energy harvesting microsystem for biomedical applications. , 2014, , .		5
81	Stimuli-Responsive Theragrippers for Chemomechanical Controlled Release. Angewandte Chemie - International Edition, 2014, 53, 8045-8049.	7.2	198
82	Biopsy using a Magnetic Capsule Endoscope Carrying, Releasing, and Retrieving Untethered Microgrippers. IEEE Transactions on Biomedical Engineering, 2014, 61, 513-521.	2.5	201
83	Rolled-up Functionalized Nanomembranes as Three-Dimensional Cavities for Single Cell Studies. Nano Letters, 2014, 14, 4197-4204.	4.5	65
84	Building Polyhedra by Self-Assembly: Theory and Experiment. Artificial Life, 2014, 20, 409-439.	1.0	15
85	Self-Folding Single Cell Grippers. Nano Letters, 2014, 14, 4164-4170.	4.5	141
86	Functional stimuli responsive hydrogel devices by self-folding. Smart Materials and Structures, 2014, 23, 094008.	1.8	137
87	Silane surface modification for improved bioadhesion of esophageal stents. Applied Surface Science, 2014, 311, 684-689.	3.1	26
88	Three dimensional self-assembly at the nanoscale. , 2013, , .		2
89	Micro antennas for implantable medical devices. , 2013, , .		5
90	Biologic Tissue Sampling With Untethered Microgrippers. Gastroenterology, 2013, 144, 691-693.	0.6	30

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91	Rolled-up magnetic microdrillers: towards remotely controlled minimally invasive surgery. Nanoscale, 2013, 5, 1294-1297.	2.8	232
92	3D Printed Bionic Ears. Nano Letters, 2013, 13, 2634-2639.	4.5	762
93	Stimuli responsive self-folding using thin polymer films. Current Opinion in Chemical Engineering, 2013, 2, 112-119.	3.8	160
94	Tissue Engineering: Bio-Inspired Origami Hydrogel Scaffolds Composed of Photocrosslinked PEG Bilayers (Adv. Tissue Eng.) Tissue Eng Part B: Revs, 2013, 19, 111-121.	3.9	111
95	Design for a Lithographically Patterned Bioartificial Endocrine Pancreas. Artificial Organs, 2013, 37, 1059-1067.	1.0	17
96	A cellular architecture for self-assembled 3D computational devices. , 2013, , .		4
97	Bio-Inspired Origami Hydrogel Scaffolds Composed of Photocrosslinked PEG Bilayers. Advanced Healthcare Materials, 2013, 2, 1142-1150.	3.9	210
98	Origami Inspired Self-assembly of Patterned and Reconfigurable Particles. Journal of Visualized Experiments, 2013, , e50022.	0.2	19
99	Stimuli Responsive Materials: Biopsy with Thermally-Responsive Untethered Microtools (Adv. Mater.) Tissue Eng Part B: Revs, 2013, 19, 111-121.	11.1	111
100	Biopsy with Thermally-Responsive Untethered Microtools. Advanced Materials, 2013, 25, 514-519.	11.1	217
101	Laser triggered sequential folding of microstructures. Applied Physics Letters, 2012, 101, .	1.5	60
102	Dielectrophoretic assembly of ordered nanostructures: Harnessing thermal randomness and inter-particle interactions. , 2012, , .		1
103	3D small antenna for energy harvesting applications on implantable micro-devices. , 2012, , .		8
104	Chemistry with spatial control using particles and streams. RSC Advances, 2012, 2, 9707.	1.7	14
105	Self-Propelled Nanotools. ACS Nano, 2012, 6, 1751-1756.	7.3	398
106	Voltage-Gated Ion Transport through Semiconducting Conical Nanopores Formed by Metal Nanoparticle-Assisted Plasma Etching. Nano Letters, 2012, 12, 3437-3442.	4.5	55
107	Self-folding thin-film materials: From nanopolyhedra to graphene origami. MRS Bulletin, 2012, 37, 847-854.	1.7	113
108	Nanowire-based surface-enhanced Raman spectroscopy (SERS) for chemical warfare simulants. Proceedings of SPIE, 2012, , .	0.8	3

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109	Self-folding polymeric containers for encapsulation and delivery of drugs. <i>Advanced Drug Delivery Reviews</i> , 2012, 64, 1579-1589.	6.6	240
110	Initiation of nanoporous energetic silicon by optically-triggered, residual stress powered microactuators. , 2012, , .		4
111	Self-folding devices and materials for biomedical applications. <i>Trends in Biotechnology</i> , 2012, 30, 138-146.	4.9	227
112	Tetherless Microgrippers With Transponder Tags. <i>Journal of Microelectromechanical Systems</i> , 2011, 20, 505-511.	1.7	19
113	Quantitative analysis of parallel nanowire array assembly by dielectrophoresis. <i>Nanoscale</i> , 2011, 3, 1059-1065.	2.8	25
114	Building 3D Nanostructured Devices by Self-Assembly. , 2011, , 1-28.		1
115	Three-dimensional microwell arrays for cell culture. <i>Lab on A Chip</i> , 2011, 11, 127-131.	3.1	66
116	Differentially photo-crosslinked polymers enable self-assembling microfluidics. <i>Nature Communications</i> , 2011, 2, 527.	5.8	219
117	Self-folding immunoprotective cell encapsulation devices. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2011, 7, 686-689.	1.7	38
118	Self-folding micropatterned polymeric containers. <i>Biomedical Microdevices</i> , 2011, 13, 51-58.	1.4	152
119	Enabling Cargoâ€Carrying Bacteria via Surface Attachment and Triggered Release. <i>Small</i> , 2011, 7, 588-592.	5.2	74
120	Nanoscale Origami for 3D Optics. <i>Small</i> , 2011, 7, 1943-1948.	5.2	145
121	3D Nanofabrication: Nanoscale Origami for 3D Optics (<i>Small</i> 14/2011). <i>Small</i> , 2011, 7, 1850-1850.	5.2	1
122	Microchemomechanical Systems. <i>Advanced Functional Materials</i> , 2011, 21, 2395-2410.	7.8	56
123	Chemically Controlled Miniature Devices: Microchemomechanical Systems (<i>Adv. Funct. Mater.</i> 13/2011). <i>Advanced Functional Materials</i> , 2011, 21, n/a-n/a.	7.8	0
124	Innentitelbild: Three-Dimensional Chemical Patterns for Cellular Self-Organization (<i>Angew. Chem.</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1.6		0
125	Threeâ€Dimensional Chemical Patterns for Cellular Selfâ€Organization. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 2549-2553.	7.2	24
126	Inside Cover: Three-Dimensional Chemical Patterns for Cellular Self-Organization (<i>Angew. Chem. Int.</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1.6		0

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127	Fabrication and characterization of RF nanoantenna on a nanoliter-scale 3D microcontainer. Nanotechnology, 2011, 22, 455303.	1.3	5
128	Algorithmic design of self-folding polyhedra. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 19885-19890.	3.3	94
129	Capillary And Magnetic Forces For Microscale Self-Assembled Systems. Materials Research Society Symposia Proceedings, 2010, 1272, 1.	0.1	0
130	Fabrication of 3D nanostructures with lithographically patterned surfaces by self-folding. Proceedings of SPIE, 2010, , .	0.8	3
131	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
132	Electrochemically grown rough-textured nanowires. Journal of Nanoparticle Research, 2010, 12, 1065-1072.	0.8	4
133	Reversible Actuation of Microstructures by Surfaceâ€Chemical Modification of Thinâ€Film Bilayers. Advanced Materials, 2010, 22, 407-410.	11.1	55
134	Curving Nanostructures Using Extrinsic Stress. Advanced Materials, 2010, 22, 2320-2324.	11.1	62
135	Nanofabrication: Curving Nanostructures Using Extrinsic Stress (Adv. Mater. 21/2010). Advanced Materials, 2010, 22, n/a-n/a.	11.1	1
136	Photolithographically patterned smart hydrogel based bilayer actuators. Polymer, 2010, 51, 6093-6098.	1.8	214
137	Directed growth of fibroblasts into three dimensional micropatterned geometries via self-assembling scaffolds. Biomaterials, 2010, 31, 1683-1690.	5.7	87
138	Patterning: Three-Dimensional Fabrication at Small Size Scales Small 7/2010. Small, 2010, 6, NA-NA.	5.2	0
139	Threeâ€Dimensional Fabrication at Small Size Scales. Small, 2010, 6, 792-806.	5.2	236
140	Fabrication and Applications of Three Dimensional Porous Microwells. Materials Research Society Symposia Proceedings, 2010, 1272, 1.	0.1	0
141	A Three Dimensional Self-folding Package (SFP) for Electronics. Materials Research Society Symposia Proceedings, 2010, 1249, 1.	0.1	6
142	Three-dimensional surface current loops in terahertz responsive microarrays. Applied Physics Letters, 2010, 96, .	1.5	21
143	Enzymatically Triggered Actuation of Miniaturized Tools. Journal of the American Chemical Society, 2010, 132, 16314-16317.	6.6	112
144	Plastic Deformation Drives Wrinkling, Saddling, and Wedging of Annular Bilayer Nanostructures. Nano Letters, 2010, 10, 5098-5102.	4.5	29

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145	Importance of Surface Patterns for Defect Mitigation in Three-Dimensional Self-Assembly. Langmuir, 2010, 26, 12534-12539.	1.6	31
146	Three Dimensional Nanofabrication Using Surface Forces. Langmuir, 2010, 26, 16534-16539.	1.6	59
147	Microassembly based on hands free origami with bidirectional curvature. Applied Physics Letters, 2009, 95, 91901.	1.5	136
148	SELF-ASSEMBLY OF THREE-DIMENSIONAL NANOPOROUS CONTAINERS. Nano, 2009, 04, 1-5.	0.5	13
149	Tetherless thermobiochemically actuated microgrippers. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 703-708.	3.3	366
150	Tetherless, 3D, Micro-Nanoscale Tools and Devices for Lab on a Chip Applications. Materials Research Society Symposia Proceedings, 2009, 1191, 13.	0.1	0
151	Hierarchical self-assembly of complex polyhedral microcontainers. Journal of Micromechanics and Microengineering, 2009, 19, 075012.	1.5	30
152	A Facile Method for Patterning Substrates with Zinc Oxide Nanowires. Materials Research Society Symposia Proceedings, 2009, 1174, 105.	0.1	0
153	Self-Assembly of Lithographically Patterned Nanoparticles. Nano Letters, 2009, 9, 4049-4052.	4.5	98
154	Size selective sampling using mobile, 3D nanoporous membranes. Analytical and Bioanalytical Chemistry, 2009, 393, 1217-1224.	1.9	14
155	Toward a miniaturized mechanical surgeon. Materials Today, 2009, 12, 14-20.	8.3	63
156	Patternable Nanowire Sensors for Electrochemical Recording of Dopamine. Analytical Chemistry, 2009, 81, 9979-9984.	3.2	50
157	Self-Assembly Based on Chromium/Copper Bilayers. Journal of Microelectromechanical Systems, 2009, 18, 784-791.	1.7	46
158	Scanning surface-enhanced Raman spectroscopy (SERS) of chemical agent simulants on templated Au-Ag nanowire substrates. , 2009, , .		1
159	Compactness Determines the Success of Cube and Octahedron Self-Assembly. PLoS ONE, 2009, 4, e4451.	1.1	33
160	Thin Film Stress Driven Self-Folding of Microstructured Containers. Small, 2008, 4, 1605-1609.	5.2	105
161	Patterning Thin Film Mechanical Properties to Drive Assembly of Complex 3D Structures. Advanced Materials, 2008, 20, 4760-4764.	11.1	53
162	Hyperthermia with Magnetic Nanowires for Inactivating Living Cells. Journal of Nanoscience and Nanotechnology, 2008, 8, 2323-2327.	0.9	51

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163	Self-loading lithographically structured microcontainers: 3D patterned, mobile microwells. Lab on A Chip, 2008, 8, 1621.	3.1	62
164	Reconfigurable Microfluidics With Metallic Containers. Journal of Microelectromechanical Systems, 2008, 17, 265-271.	1.7	12
165	Solvent Driven Motion of Lithographically Fabricated Gels. Langmuir, 2008, 24, 12158-12163.	1.6	78
166	Pick-and-Place Using Chemically Actuated Microgrippers. Journal of the American Chemical Society, 2008, 130, 17238-17239.	6.6	102
167	Concentric ring pattern formation in heated chromium-gold thin films on silicon. Applied Physics Letters, 2008, 92, 211907.	1.5	4
168	Self-assembly of orthogonal three-axis sensors. Applied Physics Letters, 2008, 93, .	1.5	36
169	NANOWIRE ASSEMBLY AND INTEGRATION. , 2008, , 187-211.		3
170	Cell Viability and Noninvasive In Vivo MRI Tracking of 3D Cell Encapsulating Self-Assembled Microcontainers. Cell Transplantation, 2007, 16, 403-408.	1.2	17
171	Surface Tension-Driven Self-Folding Polyhedra. Langmuir, 2007, 23, 8747-8751.	1.6	150
172	Correlations between SFG Spectra and Electrical Properties of Organic Field Effect Transistors. Journal of Physical Chemistry C, 2007, 111, 13250-13255.	1.5	39
173	Three-Dimensional Electrically Interconnected Nanowire Networks Formed by Diffusion Bonding. Langmuir, 2007, 23, 979-982.	1.6	33
174	Combined In-Situ Sum Frequency Generation Vibrational Spectroscopy and Electrical Characterization of Organic Field Effect Devices. ECS Meeting Abstracts, 2007, , .	0.0	0
175	Fabrication and Electrochemical Applications of 3D Self-Assembled Metallic Micropolyhedra. ECS Meeting Abstracts, 2007, , .	0.0	0
176	Remote Radio-Frequency Controlled Nanoliter Chemistry and Chemical Delivery on Substrates. Angewandte Chemie - International Edition, 2007, 46, 4991-4994.	7.2	30
177	MRI of regular-shaped cell-encapsulating polyhedral microcontainers. Magnetic Resonance in Medicine, 2007, 58, 1283-1287.	1.9	9
178	On the tracks of carrier transport. Nature Photonics, 2007, 1, 570-571.	15.6	6
179	3D lithographically fabricated nanoliter containers for drug delivery. Advanced Drug Delivery Reviews, 2007, 59, 1547-1561.	6.6	80
180	Integrating nanowires with substrates using directed assembly and nanoscale soldering. IEEE Nanotechnology Magazine, 2006, 5, 62-66.	1.1	63

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181	Dielectrophoretic assembly of reversible and irreversible metal nanowire networks and vertically aligned arrays. Applied Physics Letters, 2006, 88, 2331-18.	1.5	56
182	Probing Organic Field Effect Transistors In Situ during Operation Using SFG. Journal of the American Chemical Society, 2006, 128, 6528-6529.	6.6	78
183	Spatially Controlled Chemistry Using Remotely Guided Nanoliter Scale Containers. Journal of the American Chemical Society, 2006, 128, 11336-11337.	6.6	71
184	Kinetics of Ultraviolet and Plasma Surface Modification of Poly(dimethylsiloxane) Probed by Sum Frequency Vibrational Spectroscopy. Langmuir, 2006, 22, 1863-1868.	1.6	124
185	Reflow and Electrical Characteristics of Nanoscale Solder. Small, 2006, 2, 225-229.	5.2	32
186	Scanning surface-enhanced Raman spectroscopy of silver nanowires. , 2005, 5927, 337.		3
187	The bonding of nanowire assemblies using adhesive and solder. Jom, 2005, 57, 60-64.	0.9	35
188	Self-Assembled Three Dimensional Radio Frequency (RF) Shielded Containers for Cell Encapsulation. Biomedical Microdevices, 2005, 7, 341-345.	1.4	64
189	Micropatterned agarose gels for stamping arrays of proteins and gradients of proteins. Proteomics, 2004, 4, 2366-2376.	1.3	127
190	Surface Tension Driven Self-Assembly of Bundles and Networks of 200 nm Diameter Rods Using a Polymerizable Adhesive. Langmuir, 2004, 20, 11308-11311.	1.6	36
191	Biomimetic self-assembly of helical electrical circuits using orthogonal capillary interactions. Applied Physics Letters, 2002, 80, 2802-2804.	1.5	35
192	Biomimetic self-assembly of a functional asymmetrical electronic device. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 4937-4940.	3.3	88
193	Fabrication of a Cylindrical Display by Patterned Assembly. Science, 2002, 296, 323-325.	6.0	426
194	Fabrication of Micrometer-Scale, Patterned Polyhedra by Self-Assembly. Advanced Materials, 2002, 14, 235-238.	11.1	159
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