Alexander A Solovev

List of Publications by Year in Descending Order

36 papers	3,724 citations	19 h-index	40 g-index
40 ext. papers	4,150 ext. citations	9.8 avg, IF	5.31 L-index

#	Paper	IF	Citations
36	A Strain-engineered Helical Structure as a Self-adaptive Magnetic Microswimmer. *ChemNanoMat*, **2021**, 7, 607-612	3.5	2
35	Micro-Bio-Chemo-Mechanical-Systems: Micromotors, Microfluidics, and Nanozymes for Biomedical Applications. *Advanced Materials*, **2021**, 33, e2007465	24	12
34	Structural Coloration by Internal Reflection and Interference in Hydrogel Microbubbles and Their Precursors. *Advanced Optical Materials*, **2021**, 9, 2100259	8.1	2
33	Co9S8 Nanoparticles for Hydrogen Evolution. *ACS Applied Nano Materials*, **2021**, 4, 1776-1785	5.6	8
32	Air-Filled Microbubbles Based on Albumin Functionalized with Gold Nanocages and Zinc Phthalocyanine for Multimodal Imaging. *Micromachines*, **2021**, 12,	3.3	3
31	Catalytic/magnetic assemblies of rolled-up tubular nanomembrane-based micromotors.. *RSC Advances*, **2020**, 10, 36526-36530	3.7	0
30	Parameters Optimization of Catalytic Tubular Nanomembrane-Based Oxygen Microbubble Generator. *Micromachines*, **2020**, 11,	3.3	2
29	Nanoparticle-Shelled Catalytic Bubble Micromotor. *Advanced Materials Interfaces*, **2020**, 7, 1901583	4.6	18
28	Requirement and Development of Hydrogel Micromotors towards Biomedical Applications. *Research*, **2020**, 2020, 7659749	7.8	19
27	Hydrogel microcapsules with photocatalytic nanoparticles for removal of organic pollutants. *Environmental Science: Nano*, **2020**, 7, 656-664	7.1	27
26	Silica Nanocapsules with Unusual Shapes Accessed by Simultaneous Growth of the Template and Silica Nanostructure. *Chemistry of Materials*, **2020**, 32, 575-581	9.6	11
25	Oxygen Microbubble Generator Enabled by Tunable Catalytic Microtubes. *Chemistry - an Asian Journal*, **2019**, 14, 2431-2434	4.5	5
24	Tubular catalytic micromotors in transition from unidirectional bubble sequences to more complex bidirectional motion. *Applied Physics Letters*, **2019**, 114, 033701	3.4	14
23	A Step-by-Step Strategy for Controlled Preparations of Complex Heterostructured Colloids. *Chemistry of Materials*, **2019**, 31, 9513-9521	9.6	6
22	Hydrogel micromotors with catalyst-containing liquid core and shell. *Journal of Physics Condensed Matter*, **2019**, 31, 214004	1.8	19
21	Light-controlled two-dimensional TiO plate micromotors.. *RSC Advances*, **2019**, 9, 29433-29439	3.7	7
20	Local-Curvature-Controlled Non-Epitaxial Growth of Hierarchical Nanostructures. *Angewandte Chemie*, **2018**, 130, 3834-3838	3.6	5

19	Local-Curvature-Controlled Non-Epitaxial Growth of Hierarchical Nanostructures. *Angewandte Chemie - International Edition*, **2018**, 57, 3772-3776	16.4	15
18	Carbon dioxide bubble-propelled microengines in carbonated water and beverages. *Chemical Communications*, **2018**, 54, 5692-5695	5.8	9
17	Hydrogel Microcapsules with Dynamic pH-Responsive Properties from Methacrylic Anhydride. *Macromolecules*, **2018**, 51, 5798-5805	5.5	31
16	Geometry Design, Principles and Assembly of Micromotors. *Micromachines*, **2018**, 9,	3.3	41
15	Biosystem Assembly: Origami Biosystems: 3D Assembly Methods for Biomedical Applications (Adv. Biosys. 12/2018). *Advanced Biology*, **2018**, 2, 1870113	3.5	1
14	Origami Biosystems: 3D Assembly Methods for Biomedical Applications. *Advanced Biology*, **2018**, 2, 1800230	3.5	39
13	Rolled-up magnetic microdrillers: towards remotely controlled minimally invasive surgery. *Nanoscale*, **2013**, 5, 1294-1297	7.7	181
12	Collective behaviour of self-propelled catalytic micromotors. *Nanoscale*, **2013**, 5, 1284-93	7.7	89
11	Self-propelled nanotools. *ACS Nano*, **2012**, 6, 1751-6	16.7	333
10	Microbots swimming in the flowing streams of microfluidic channels. *Journal of the American Chemical Society*, **2011**, 133, 701-3	16.4	195
9	Rolled-up nanotech on polymers: from basic perception to self-propelled catalytic microengines. *Chemical Society Reviews*, **2011**, 40, 2109-19	58.5	515
8	Light-controlled propulsion of catalytic microengines. *Angewandte Chemie - International Edition*, **2011**, 50, 10875-8	16.4	130
7	Controlled manipulation of multiple cells using catalytic microbots. *Chemical Communications*, **2011** , 47, 698-700	5.8	216
6	Tunable catalytic tubular micro-pumps operating at low concentrations of hydrogen peroxide. *Physical Chemistry Chemical Physics*, **2011**, 13, 10131-5	3.6	69
5	Dynamics of biocatalytic microengines mediated by variable friction control. *Journal of the American Chemical Society*, **2010**, 132, 13144-5	16.4	219
4	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
3	Catalytic microstrider at the air-liquid interface. *Advanced Materials*, **2010**, 22, 4340-4	24	52
2	Catalytic microtubular jet engines self-propelled by accumulated gas bubbles. *Small*, **2009**, 5, 1688-92	11	548

1 Versatile Approach for Integrative and Functionalized Tubes by Strain Engineering of Nanomembranes on Polymers. *Advanced Materials*, **2008**, 20, 4085-4090 24 537