

Ahmet F Demirçrs

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

1,646
citations

304743

22
h-index

395702

33
g-index

36
all docs

36
docs citations

36
times ranked

2620
citing authors

#	ARTICLE	IF	CITATIONS
1	Colloidal assembly directed by virtual magnetic moulds. <i>Nature</i> , 2013, 503, 99-103.	27.8	177
2	Shape-encoded dynamic assembly of mobile micromachines. <i>Nature Materials</i> , 2019, 18, 1244-1251.	27.5	117
3	Nanonewton optical force trap employing anti-reflection coated, high-refractive-index titania microspheres. <i>Nature Photonics</i> , 2012, 6, 469-473.	31.4	108
4	Switching plastic crystals of colloidal rods with electric fields. <i>Nature Communications</i> , 2014, 5, 3092.	12.8	103
5	Magnetic assembly of transparent and conducting graphene-based functional composites. <i>Nature Communications</i> , 2016, 7, 12078.	12.8	97
6	Phase Behavior and Structure of a New Colloidal Model System of Bowl-Shaped Particles. <i>Nano Letters</i> , 2010, 10, 1907-1911.	9.1	95
7	Colloidal Analogues of Charged and Uncharged Polymer Chains with Tunable Stiffness. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11249-11253.	13.8	94
8	Directed Self-Assembly of Colloidal Dumbbells with an Electric Field. <i>Langmuir</i> , 2010, 26, 14466-14471.	3.5	92
9	BaTiO ₃ , SrTiO ₃ , CaTiO ₃ , and Ba _x Sr _{1-x} TiO ₃ Particles: A General Approach for Monodisperse Colloidal Perovskites. <i>Chemistry of Materials</i> , 2009, 21, 3002-3007.	6.7	87
10	A General Method to Coat Colloidal Particles with Titania. <i>Langmuir</i> , 2010, 26, 9297-9303.	3.5	85
11	Active cargo transport with Janus colloidal shuttles using electric and magnetic fields. <i>Soft Matter</i> , 2018, 14, 4741-4749.	2.7	74
12	Synthesis of Eccentric Titania-Silica Core-Shell and Composite Particles. <i>Chemistry of Materials</i> , 2009, 21, 979-984.	6.7	61
13	Liquid Crystalline Mesophases of Pluronics (L64, P65, and P123) and Transition Metal Nitrate Salts ([M(H ₂ O) ₆](NO ₃) ₂). <i>Langmuir</i> , 2005, 21, 4156-4162.	3.5	60
14	Emulsions Stabilized by Chitosan-Modified Silica Nanoparticles: pH Control of Structure-Property Relations. <i>Langmuir</i> , 2018, 34, 6147-6160.	3.5	51
15	Periodically microstructured composite films made by electric- and magnetic-directed colloidal assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 4623-4628.	7.1	34
16	Amphibious Transport of Fluids and Solids by Soft Magnetic Carpets. <i>Advanced Science</i> , 2021, 8, e2102510.	11.2	31
17	Long-Ranged Oppositely Charged Interactions for Designing New Types of Colloidal Clusters. <i>Physical Review X</i> , 2015, 5, .	8.9	30
18	Magnetofluidic Tweezing of Nonmagnetic Colloids. <i>Advanced Materials</i> , 2016, 28, 3453-3459.	21.0	28

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19	Colloidal shuttles for programmable cargo transport. <i>Nature Communications</i> , 2017, 8, 1872.	12.8	28
20	Programmable droplet manipulation and wetting with soft magnetic carpets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	27
21	Seeded Growth of Titania Colloids with Refractive Index Tunability and Fluorophore-Free Luminescence. <i>Langmuir</i> , 2011, 27, 1626-1634.	3.5	23
22	Colloidal Switches by Electric and Magnetic Fields. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 17238-17244.	8.0	21
23	Electric Field Assembly of Colloidal Superstructures. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4437-4443.	4.6	16
24	Multiscale directed self-assembly of composite microgels in complex electric fields. <i>Soft Matter</i> , 2017, 13, 88-100.	2.7	13
25	One-Step Bulk Fabrication of Polymer-Based Microcapsules with Hard-Soft Bilayer Thick Shells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 37364-37373.	8.0	12
26	Magnetic propulsion of colloidal microrollers controlled by electrically modulated friction. <i>Soft Matter</i> , 2021, 17, 1037-1047.	2.7	12
27	Robust Microcompartments with Hydrophobically Gated Shells. <i>Langmuir</i> , 2015, 31, 6965-6970.	3.5	11
28	Can circular dichroism in core-level photoemission provide a spectral fingerprint of adsorbed chiral molecules?. <i>New Journal of Physics</i> , 2005, 7, 109-109.	2.9	8
29	Colloidal assembly and 3D shaping by dielectrophoretic confinement. <i>Soft Matter</i> , 2017, 13, 3182-3189.	2.7	6
30	Mechanical Control of Surface Adsorption by Nanoscale Cracking. <i>Advanced Materials</i> , 2014, 26, 3667-3672.	21.0	5
31	Magnetophoretic Assembly of Anisotropic Colloids for Spatial Control of Reinforcement in Composites. <i>Journal of Physical Chemistry B</i> , 2016, 120, 9759-9765.	2.6	5
32	The effect of anions of transition metal salts on the structure of modified mesostructured silica films and monoliths. <i>Microporous and Mesoporous Materials</i> , 2007, 98, 249-257.	4.4	4