

Amgad R Rezk

List of Publications by Year in descending order

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53
papers

1,631
citations

236925

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docs citations

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times ranked

1806
citing authors

#	ARTICLE	IF	CITATIONS
1	Acoustotemplating: rapid synthesis of freestanding quasi-2D MOF/graphene oxide heterostructures for supercapacitor applications. <i>Journal of Materials Chemistry A</i> , 2022, 10, 7058-7072.	10.3	24
2	High Frequency Sonoprocessing: A New Field of Cavitation-Free Acoustic Materials Synthesis, Processing, and Manipulation. <i>Advanced Science</i> , 2021, 8, 2001983.	11.2	37
3	Optimising Aerosol Delivery for Maxillary Sinus Deposition in a Post-FESS Sinonasal Cavities. <i>Aerosol and Air Quality Research</i> , 2021, 21, 210098.	2.1	3
4	Programmable Phototaxis of Metal-Phenolic Particle Microswimmers. <i>Advanced Materials</i> , 2021, 33, e2006177.	21.0	16
5	Ultrafast, One-Step, Salt-Solution-Based Acoustic Synthesis of Ti_3C_2 MXene. <i>ACS Nano</i> , 2021, 15, 4287-4293.	14.6	103
6	Acoustofection: High-Frequency Vibrational Membrane Permeabilization for Intracellular siRNA Delivery into Nonadherent Cells. <i>ACS Applied Bio Materials</i> , 2021, 4, 2781-2789.	4.6	23
7	Acoustic cavitation at low gas pressures in PZT-based ultrasonic systems. <i>Ultrasonics Sonochemistry</i> , 2021, 73, 105493.	8.2	9
8	Acoustomicrofluidic Synthesis of Pristine Ultrathin $\text{Ti}_3\text{C}_2\text{T}_z$ MXene Nanosheets and Quantum Dots. <i>ACS Nano</i> , 2021, 15, 12099-12108.	14.6	46
9	Subwavelength confinement of propagating surface acoustic waves. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	5
10	Acoustomicrofluidic Concentration and Signal Enhancement of Fluorescent Nanodiamond Sensors. <i>Analytical Chemistry</i> , 2021, 93, 16133-16141.	6.5	12
11	Enhanced Antimicrobial Activity and Low Phytotoxicity of Acoustically Synthesized Large Aspect Ratio Cu-BTC Metal-Organic Frameworks with Exposed Metal Sites. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 58309-58318.	8.0	11
12	Fast three-dimensional micropatterning of PC12 cells in rapidly crosslinked hydrogel scaffolds using ultrasonic standing waves. <i>Biofabrication</i> , 2020, 12, 015013.	7.1	15
13	On-Chip Generation of Vortical Flows for Microfluidic Centrifugation. <i>Small</i> , 2020, 16, e1903605.	10.0	30
14	Submicron Particle and Cell Concentration in a Closed Chamber Surface Acoustic Wave Microcentrifuge. <i>Analytical Chemistry</i> , 2020, 92, 10024-10032.	6.5	37
15	Free Radical Generation from High-Frequency Electromechanical Dissociation of Pure Water. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4655-4661.	4.6	23
16	Ultrafast assembly of swordlike $\text{Cu}_3(1,3,5\text{-benzenetricarboxylate})_n$ metal-organic framework crystals with exposed active metal sites. <i>Nanoscale Horizons</i> , 2020, 5, 1050-1057.	8.0	16
17	Rapid dry exfoliation method for tuneable production of molybdenum disulphide quantum dots and large micron-dimension sheets. <i>Nanoscale</i> , 2019, 11, 11626-11633.	5.6	5
18	Acoustomicrofluidic assembly of oriented and simultaneously activated metal-organic frameworks. <i>Nature Communications</i> , 2019, 10, 2282.	12.8	33

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19	Miniaturised acoustofluidic tactile haptic actuator. <i>Soft Matter</i> , 2019, 15, 4146-4152.	2.7	8
20	Acoustopipetting: Tunable Nanoliter Sample Dispensing Using Surface Acoustic Waves. <i>Analytical Chemistry</i> , 2019, 91, 5621-5628.	6.5	17
21	Hybrid Surface and Bulk Resonant Acoustics for Concurrent Actuation and Sensing on a Single Microfluidic Device. <i>Analytical Chemistry</i> , 2018, 90, 5335-5342.	6.5	9
22	Plug-and-actuate on demand: multimodal individual addressability of microarray plates using modular hybrid acoustic wave technology. <i>Lab on A Chip</i> , 2018, 18, 406-411.	6.0	22
23	High frequency acoustic permeabilisation of drugs through tissue for localised mucosal delivery. <i>Lab on A Chip</i> , 2018, 18, 3272-3284.	6.0	17
24	Continuous tuneable droplet ejection via pulsed surface acoustic wave jetting. <i>Soft Matter</i> , 2018, 14, 5721-5727.	2.7	52
25	Increasing Exfoliation Yield in the Synthesis of MoS ₂ Quantum Dots for Optoelectronic and Other Applications through a Continuous Multicycle Acoustomicrofluidic Approach. <i>ACS Applied Nano Materials</i> , 2018, 1, 2503-2508.	5.0	19
26	Acoustically-mediated intracellular delivery. <i>Nanoscale</i> , 2018, 10, 13165-13178.	5.6	59
27	Liquid Phase Acoustic Wave Exfoliation of Layered MoS ₂ : Critical Impact of Electric Field in Efficiency. <i>Chemistry of Materials</i> , 2018, 30, 5593-5601.	6.7	31
28	Ultrafast Acoustofluidic Exfoliation of Stratified Crystals. <i>Advanced Materials</i> , 2018, 30, e1704756.	21.0	32
29	Dissolution dynamics of a suspension droplet in a binary solution for controlled nanoparticle assembly. <i>Nanoscale</i> , 2017, 9, 13441-13448.	5.6	10
30	Continuous Production of Janus and Composite Liquid Marbles with Tunable Coverage. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 17751-17756.	8.0	22
31	Stability and efficacy of synthetic cationic antimicrobial peptides nebulized using high frequency acoustic waves. <i>Biomicrofluidics</i> , 2016, 10, 034115.	2.4	24
32	Microfluidics: HYbriD Resonant Acoustics (HYDRA) (Adv. Mater. 10/2016). <i>Advanced Materials</i> , 2016, 28, 2088-2088.	21.0	1
33	Acoustically-driven thread-based tuneable gradient generators. <i>Lab on A Chip</i> , 2016, 16, 2820-2828.	6.0	28
34	Rapid Enhancement of Cellular Spheroid Assembly by Acoustically Driven Microcentrifugation. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 1013-1022.	5.2	58
35	HYbriD Resonant Acoustics (HYDRA). <i>Advanced Materials</i> , 2016, 28, 1970-1975.	21.0	63
36	Phonon-polariton entrapment in homogenous surface phonon cavities. <i>Annalen Der Physik</i> , 2016, 528, 365-372.	2.4	7

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37	Acoustically-Driven Trion and Exciton Modulation in Piezoelectric Two-Dimensional MoS ₂ . Nano Letters, 2016, 16, 849-855.	9.1	91
38	Assessment of the potential of a high frequency acoustomicrofluidic nebulisation platform for inhaled stem cell therapy. Integrative Biology (United Kingdom), 2016, 8, 12-20.	1.3	37
39	Dynamics of liquid films exposed to high-frequency surface vibration. Physical Review E, 2015, 91, 053015.	2.1	41
40	Highly Ordered Arrays of Femtoliter Surface Droplets. Small, 2015, 11, 4850-4855.	10.0	64
41	Acoustic-Excitonic Coupling for Dynamic Photoluminescence Manipulation of Quasi-2D MoS ₂ Nanoflakes. Advanced Optical Materials, 2015, 3, 888-894.	7.3	39
42	Microscale anechoic architecture: acoustic diffusers for ultra low power microparticle separation via traveling surface acoustic waves. Lab on A Chip, 2015, 15, 43-46.	6.0	41
43	Surface Acoustic Devices: UV Direct Write Metal Enhanced Redox (MER) Domain Engineering for Realization of Surface Acoustic Devices on Lithium Niobate (Adv. Mater. Interfaces 4/2014). Advanced Materials Interfaces, 2014, 1, .	3.7	0
44	Double flow reversal in thin liquid films driven by megahertz-order surface vibration. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2014, 470, 20130765.	2.1	35
45	Toward Complete Miniaturisation of Flow Injection Analysis Systems: Microfluidic Enhancement of Chemiluminescent Detection. Analytical Chemistry, 2014, 86, 10812-10819.	6.5	41
46	Simple, low cost MHz-order acoustomicrofluidics using aluminium foil electrodes. Lab on A Chip, 2014, 14, 1802-1805.	6.0	35
47	Poloidal Flow and Toroidal Particle Ring Formation in a Sessile Drop Driven by Megahertz Order Vibration. Langmuir, 2014, 30, 11243-11247.	3.5	33
48	UV Direct Write Metal Enhanced Redox (MER) Domain Engineering for Realization of Surface Acoustic Devices on Lithium Niobate. Advanced Materials Interfaces, 2014, 1, 1400006.	3.7	8
49	Impact of domain depth on SAW generation by acoustic superlattice transducer in 128° YX-cut lithium niobate. , 2013, , .		0
50	Ultraviolet direct domain writing on 128° YX-cut LiNbO ₃ : For SAW applications. , 2013, , .		0
51	Unique fingering instabilities and soliton-like wave propagation in thin acoustowetting films. Nature Communications, 2012, 3, 1167.	12.8	86
52	Uniform mixing in paper-based microfluidic systems using surface acoustic waves. Lab on A Chip, 2012, 12, 773-779.	6.0	153
53	Phonon-Mediated Synthesis, Processing and Manipulation of Two-Dimensional Materials. , 0, , .		0