

Nabil D Bassim

List of Publications by Year in descending order

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44
papers

1,061
citations

516710

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times ranked

1716
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-supercritical drying synthesis and characterization of monolithic alumina aerogel from secondary aluminum dross. <i>Ceramics International</i> , 2022, 48, 13154-13162.	4.8	7
2	Liquid cell transmission electron microscopy reveals C-S-H growth mechanism during Portland cement hydration. <i>Materialia</i> , 2022, 22, 101387.	2.7	4
3	Advanced characterisation of 3D structure and porosity of ordinary portland cement (OPC) mortar using plasma focused ion beam tomography and X-ray computed tomography. <i>Journal of Microscopy</i> , 2022, 287, 19-31.	1.8	1
4	Light-Matter Interaction in Quantum Confined 2D Polar Metals. <i>Advanced Functional Materials</i> , 2021, 31, 2005977.	14.9	17
5	Probing Phonon Polaritons Across Nanoscale Gaps. <i>Microscopy and Microanalysis</i> , 2021, 27, 702-704.	0.4	0
6	Correlative Electron Microscopy Enables Scalable Characterization of 2D half-van der Waals Heterostructures. <i>Microscopy and Microanalysis</i> , 2021, 27, 636-638.	0.4	1
7	Correlative Light and Electron Microscopy for the Study of the Structural Arrangement of Bacterial Microcrystalline Cellulose Microfibrils. <i>Microscopy and Microanalysis</i> , 2021, 27, 566-569.	0.4	1
8	Making the Stitching Process of Montaged SEM Images Automatic Using Fourier Transform Properties. <i>Microscopy and Microanalysis</i> , 2021, 27, 478-480.	0.4	1
9	In situ study of microstructure in phase transformation of pipe line steel. <i>Microscopy and Microanalysis</i> , 2021, 27, 1554-1555.	0.4	1
10	Tunable 2D Group-III Metal Alloys. <i>Advanced Materials</i> , 2021, 33, e2104265.	21.0	14
11	Scalable Characterization of 2D Gallium-Intercalated Epitaxial Graphene. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 55428-55439.	8.0	5
12	Unexpected Near-Infrared to Visible Nonlinear Optical Properties from 2-D Polar Metals. <i>Nano Letters</i> , 2020, 20, 8312-8318.	9.1	22
13	Spontaneous Relaxation of Heteroepitaxial Thin Films by van der Waals-Like Bonding on Te-Terminated Sapphire Substrates. <i>Small</i> , 2020, 16, e2004437.	10.0	1
14	Scalable Substitutional Re-Doping and its Impact on the Optical and Electronic Properties of Tungsten Diselenide. <i>Advanced Materials</i> , 2020, 32, e2005159.	21.0	32
15	Exploiting Phonon-Resonant Near-Field Interaction for the Nanoscale Investigation of Extended Defects. <i>Advanced Functional Materials</i> , 2020, 30, 1907357.	14.9	12
16	Bacteriophage ZCSE2 is a Potent Antimicrobial against <i>Salmonella enterica</i> Serovars: Ultrastructure, Genomics and Efficacy. <i>Viruses</i> , 2020, 12, 424.	3.3	24
17	Chemical Mapping of Unstained DNA Origami Using STEM/EDS and Graphene Supports. <i>ACS Applied Nano Materials</i> , 2020, 3, 1123-1130.	5.0	7
18	Using Plasma Focused Ion Beam Microscopy to Characterize 3D Structure and Porosity of OPC Mortar. <i>Microscopy and Microanalysis</i> , 2019, 25, 926-927.	0.4	0

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19	Scanning Electron Microscope 3D Surface Reconstruction via Optimization. <i>Microscopy and Microanalysis</i> , 2019, 25, 224-225.	0.4	1
20	Durability performance of geopolymers based on fly ash and calcium aluminate cement in mild concentration acid solutions. <i>Journal of Sustainable Cement-Based Materials</i> , 2019, 8, 290-308.	3.1	26
21	Ag Thin Film Dewetting Prevention by Ion Implantation. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900108.	3.7	4
22	Removing Stripes, Scratches, and Curtaining with Nonrecoverable Compressed Sensing. <i>Microscopy and Microanalysis</i> , 2019, 25, 705-710.	0.4	21
23	Electron beam damage of epoxy resin films studied by scanning transmission X-ray spectromicroscopy. <i>Micron</i> , 2019, 120, 74-79.	2.2	11
24	Fabrication of phonon-based metamaterial structures using focused ion beam patterning. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	10
25	Multi-Angle Plasma Focused Ion Beam (FIB) Curtaining Artifact Correction Using a Fourier-Based Linear Optimization Model. <i>Microscopy and Microanalysis</i> , 2018, 24, 657-666.	0.4	5
26	Plasma Focused Ion Beam Curtaining Artifact Correction by Fourier-Based Linear Optimization Model. <i>Microscopy and Microanalysis</i> , 2018, 24, 588-589.	0.4	1
27	Acid attack on geopolymers based on waste-glass powder and calcium aluminate cement at mild concentration. <i>Construction and Building Materials</i> , 2018, 193, 363-372.	7.2	77
28	Application of Liquid Cell-TEM in Hydration Reactions of Nano Portland Cement. <i>Microscopy and Microanalysis</i> , 2018, 24, 294-295.	0.4	2
29	Electron Microscopy and Electron Energy-Loss Spectroscopy (EELS) of Few-Layer Chemically-Exfoliated Phosphorene Flakes. <i>Microscopy and Microanalysis</i> , 2018, 24, 470-471.	0.4	2
30	Use of Laser Lithography for Striating 2G HTS Conductors for AC Loss Reduction. <i>IEEE Transactions on Applied Superconductivity</i> , 2017, 27, 1-5.	1.7	4
31	(S)TEM Characterization of Chemically Exfoliated Black Phosphorus. <i>Microscopy and Microanalysis</i> , 2016, 22, 1544-1545.	0.4	0
32	Transfer of Chemically Modified Graphene with Retention of Functionality for Surface Engineering. <i>Nano Letters</i> , 2016, 16, 1455-1461.	9.1	19
33	Catalytic activity and thermal stability of horseradish peroxidase encapsulated in self-assembled organic nanotubes. <i>Analyst</i> , The, 2016, 141, 2191-2198.	3.5	24
34	Impact of confinement on proteins concentrated in lithocholic acid based organic nanotubes. <i>Journal of Colloid and Interface Science</i> , 2015, 454, 97-104.	9.4	12
35	Recent advances in focused ion beam technology and applications. <i>MRS Bulletin</i> , 2014, 39, 317-325.	3.5	119
36	Stardust Interstellar Preliminary Examination <sc>X</sc>: Identification and elemental analysis of impact craters on Al foils from the Stardust Interstellar Dust Collector. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1698-1719.	1.6	16

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37	Stardust Interstellar Preliminary Examination <scp>II</scp>: Curating the interstellar dust collector, picrokeystones, and sources of impact tracks. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1522-1547.	1.6	18
38	Stardust Interstellar Preliminary Examination I: Identification of tracks in aerogel. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1509-1521.	1.6	16
39	Stardust Interstellar Preliminary Examination <scp>IV</scp>: Scanning transmission X-ray microscopy analyses of impact features in the Stardust Interstellar Dust Collector. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1562-1593.	1.6	18
40	Evidence for interstellar origin of seven dust particles collected by the Stardust spacecraft. <i>Science</i> , 2014, 345, 786-791.	12.6	152
41	Low-Loss, Extreme Subdiffraction Photon Confinement via Silicon Carbide Localized Surface Phonon Polariton Resonators. <i>Nano Letters</i> , 2013, 13, 3690-3697.	9.1	259
42	TEM imaging of unstained DNA nanostructures using suspended graphene. <i>Soft Matter</i> , 2013, 9, 1414-1417.	2.7	15
43	Isotopic and chemical variation of organic nanoglobules in primitive meteorites. <i>Meteoritics and Planetary Science</i> , 2013, 48, 904-928.	1.6	78
44	Microstructural Study of Ultraviolet-Assisted Pulse Laser deposited Indium Tin Oxide Films. <i>Materials Research Society Symposia Proceedings</i> , 2002, 721, 1.	0.1	1