

# Alexander M Bittner

## List of Publications by Year in descending order

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80  
papers

6,058  
citations

101543

36  
h-index

69250

77  
g-index

86  
all docs

86  
docs citations

86  
times ranked

8810  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning the magnetic properties of NiPS <sub>3</sub> through organic-ion intercalation. <i>Nanoscale</i> , 2022, 14, 1165-1173.	5.6	14
2	Peptide-Based Electrospun Fibers: Current Status and Emerging Developments. <i>Nanomaterials</i> , 2021, 11, 1262.	4.1	15
3	Nanoscale Wetting of Single Viruses. <i>Molecules</i> , 2021, 26, 5184.	3.8	2
4	The ice–vapour interface during growth and sublimation. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 18629-18640.	4.9	2
5	Protein aggregates nucleate ice: the example of apoferritin. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 3291-3315.	4.9	22
6	Electrospinning of pyrazole-isothiazole derivatives: nanofibers from small molecules. <i>RSC Advances</i> , 2019, 9, 20565-20572.	3.6	16
7	Nanoscale wetting of viruses by ionic liquids. <i>Journal of Molecular Liquids</i> , 2019, 276, 667-674.	4.9	4
8	TMV-Templated Formation of Metal and Polymer Nanotubes. <i>Methods in Molecular Biology</i> , 2018, 1776, 383-392.	0.9	2
9	Simple Electroless Synthesis of Cobalt Nanoparticle Chains, Oriented by Externally Applied Magnetic Fields. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018, 232, 1631-1646.	2.8	8
10	Catalysis of a 1,3-dipolar reaction by distorted DNA incorporating a heterobimetallic platinum(II) and copper(II) complex. <i>Chemical Science</i> , 2017, 8, 7038-7046.	7.4	6
11	Novel roles for well-known players: from tobacco mosaic virus pests to enzymatically active assemblies. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 613-629.	2.8	54
12	Nanoscale device architectures derived from biological assemblies: The case of tobacco mosaic virus and (apo)ferritin. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 03DA01.	1.5	13
13	Virus-Templated Near-Amorphous Iron Oxide Nanotubes. <i>Langmuir</i> , 2016, 32, 5899-5908.	3.5	16
14	Multifrequency Force Microscopy of Helical Protein Assembly on a Virus. <i>Scientific Reports</i> , 2016, 6, 21899.	3.3	13
15	Hollow Iron Oxide Nanoparticles in Polymer Nanobeads as MRI Contrast Agents. <i>Journal of Physical Chemistry C</i> , 2015, 119, 6246-6253.	3.1	14
16	Mixed self-assembled monolayer gate dielectrics for low-voltage solution-processed polymer field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2015, 3, 1181-1186.	5.5	6
17	Zwitterionic ring-opening polymerization for the facile, efficient and versatile grafting of functional polyethers onto graphene sheets. <i>European Polymer Journal</i> , 2015, 73, 413-422.	5.4	3
18	Electrospinning of Tetraphenylporphyrin Compounds into Wires. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 88-93.	2.3	27

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19	The physics of tobacco mosaic virus and virus-based devices in biotechnology. Trends in Biotechnology, 2013, 31, 530-538.	9.3	105
20	Structural analysis and mapping of individual protein complexes by infrared nanospectroscopy. Nature Communications, 2013, 4, 2890.	12.8	319
21	Charge and spin transport in PEDOT:PSS nanoscale lateral devices. Nanotechnology, 2013, 24, 475201.	2.6	15
22	Electrospinning of peptide and protein fibres: approaching the molecular scale. Faraday Discussions, 2013, 166, 209.	3.2	28
23	pH Control of the Electrostatic Binding of Gold and Iron Oxide Nanoparticles to Tobacco Mosaic Virus. Langmuir, 2013, 29, 2094-2098.	3.5	58
24	Colloidal Ordered Assemblies in a Polymer Shell—A Novel Type of Magnetic Nanobeads for Theranostic Applications. Chemistry of Materials, 2013, 25, 1055-1062.	6.7	56
25	Nanoscale Science and Technology with Plant Viruses and Bacteriophages. Sub-Cellular Biochemistry, 2013, 68, 667-702.	2.4	32
26	The Condensation of Water on Adsorbed Viruses.. Langmuir, 2013, 29, 14580-14587.	3.5	12
27	Integration of plant viruses in electron beam lithography nanostructures. Nanotechnology, 2013, 24, 105305.	2.6	10
28	Electroless synthesis of 3 nm wide alloy nanowires inside Tobacco mosaic virus. Nanotechnology, 2012, 23, 045603.	2.6	45
29	Vibrational spectroscopy of self-assembling aromatic peptide derivatives. Journal of Raman Spectroscopy, 2012, 43, 1397-1406.	2.5	18
30	Ageing of electrochemical double layer capacitors. Journal of Power Sources, 2012, 203, 262-273.	7.8	121
31	Inducible Site-Selective Bottom-Up Assembly of Virus-Derived Nanotube Arrays on RNA-Equipped Wafers. ACS Nano, 2011, 5, 4512-4520.	14.6	55
32	Engineered Tobacco mosaic virus mutants with distinct physical characteristics in planta and enhanced metallization properties. Virus Research, 2011, 157, 35-46.	2.2	68
33	Preparation and magnetoviscosity of nanotube ferrofluids by viral scaffolding and ALD on porous templates. Physica Status Solidi (B): Basic Research, 2010, 247, 2412-2423.	1.5	19
34	Enhancing the Magnetoviscosity of Ferrofluids by the Addition of Biological Nanotubes. ACS Nano, 2010, 4, 4531-4538.	14.6	65
35	Biomolecules as soft matter surfaces. Surface Science, 2009, 603, 1922-1925.	1.9	8
36	Catalytic coating of virus particles with zinc oxide. Electrochimica Acta, 2009, 54, 5149-5154.	5.2	39

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37	Electroless Deposition Approaching the Molecular Scale. , 2009, , 221-235.		3
38	Printing and Aligning Mesoscale Patterns of Tobacco mosaic virus on Surfaces. <i>Advanced Materials</i> , 2008, 20, 2195-2200.	21.0	35
39	Electrospinning of Diphenylalanine Nanotubes. <i>Advanced Materials</i> , 2008, 20, 2332-2336.	21.0	77
40	Chemical and electrochemical ageing of carbon materials used in supercapacitor electrodes. <i>Carbon</i> , 2008, 46, 1829-1840.	10.3	178
41	Study of self-assembled triethoxysilane thin films made by casting neat reagents in ambient atmosphere. <i>Thin Solid Films</i> , 2008, 516, 3948-3956.	1.8	56
42	Self-Assembly of Metalâ€“Virus Nanodumbbells. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3149-3151.	13.8	60
43	Electronic Transport Properties of Individual Chemically Reduced Graphene Oxide Sheets. <i>Nano Letters</i> , 2007, 7, 3499-3503.	9.1	2,177
44	Copper nanowires within the central channel of tobacco mosaic virus particles. <i>Electrochimica Acta</i> , 2006, 51, 6251-6257.	5.2	123
45	Clusters on soft matter surfaces. <i>Surface Science Reports</i> , 2006, 61, 383-428.	7.2	46
46	Investigating the lateral motion of SiGe islands by selective chemical etching. <i>Surface Science</i> , 2006, 600, 2608-2613.	1.9	50
47	A new SERS-active sandwich structure. <i>Journal of Solid State Electrochemistry</i> , 2006, 11, 150-154.	2.5	16
48	Bottom-Up Synthesis and Top-Down Organisation of Semiconductor and Metal Clusters on Surfaces. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 3717-3728.	2.0	10
49	Biomolecular rods and tubes in nanotechnology. <i>Die Naturwissenschaften</i> , 2005, 92, 51-64.	1.6	58
50	Kinetic origin of island intermixing during the growth of Ge on Si(001). <i>Physical Review B</i> , 2005, 72, .	3.2	76
51	Synthesis, Photoluminescence, and Adsorption of CdS/Dendrimer Nanocomposites. <i>Journal of Physical Chemistry B</i> , 2005, 109, 230-239.	2.6	91
52	Spatially Selective Nucleation of Metal Clusters on the Tobacco Mosaic Virus. <i>Advanced Functional Materials</i> , 2004, 14, 116-124.	14.9	235
53	Microcontact Printing of CdS/Dendrimer Nanocomposite Patterns on Silicon Wafers. <i>Advanced Materials</i> , 2004, 16, 413-417.	21.0	53
54	Binding the Tobacco Mosaic Virus to Inorganic Surfaces. <i>Langmuir</i> , 2004, 20, 441-447.	3.5	103

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55	Biotemplate Synthesis of 3-nm Nickel and Cobalt Nanowires. <i>Nano Letters</i> , 2003, 3, 1079-1082.	9.1	397
56	Conformations of an amino- $\alpha$ -amido- $\beta$ -thiolate self-assembled layer on gold in air and in electrolytes. <i>Journal of Electroanalytical Chemistry</i> , 2003, 550-551, 113-124.	3.8	10
57	Ligand grafting method for immobilization of metal complexes on a carbon electrode. <i>Thin Solid Films</i> , 2003, 424, 239-246.	1.8	10
58	The effect of annealing conditions on the red photoluminescence of nanocrystalline Si/SiO <sub>2</sub> films. <i>Thin Solid Films</i> , 2003, 425, 175-184.	1.8	26
59	Chemical imaging of interfaces by sum-frequency generation microscopy: Application to patterned self-assembled monolayers. <i>Applied Physics Letters</i> , 2003, 83, 3830-3832.	3.3	57
60	Alkanethiolate Reorientation during Metal Electrodeposition. <i>Langmuir</i> , 2002, 18, 773-784.	3.5	60
61	Spatially Selective Electroless Deposition of Cobalt on Oxide Surfaces Directed by Microcontact Printing of Dendrimers. <i>Langmuir</i> , 2002, 18, 4984-4988.	3.5	34
62	Electroless Metallization of Dendrimer-Coated Micropatterns. <i>Advanced Functional Materials</i> , 2002, 12, 432-436.	14.9	33
63	Electrochemical modification of individual nano-objects. <i>Journal of Electroanalytical Chemistry</i> , 2002, 522, 70-74.	3.8	105
64	Growth of Single-Walled Carbon Nanotubes from Microcontact-Printed Catalyst Patterns on Thin Si <sub>3</sub> N <sub>4</sub> Membranes. <i>Advanced Functional Materials</i> , 2001, 11, 295-298.	14.9	38
65	Kinetic oscillations of red photoluminescence from nanocrystalline Si/SiO <sub>2</sub> films. <i>Applied Physics Letters</i> , 2000, 77, 645-647.	3.3	33
66	Copper Electrodeposition on Alkanethiolate Covered Gold Electrodes*. <i>Zeitschrift Fur Physikalische Chemie</i> , 1999, 208, 107-136.	2.8	36
67	Temperature-Promoted Electrodeposition on Thiolate-Modified Electrodes. <i>Langmuir</i> , 1998, 14, 7292-7297.	3.5	23
68	Electroless Deposition of Metal Nanoislands on Aminothiolate-Functionalized Au(111) Electrodes. <i>Journal of Physical Chemistry B</i> , 1998, 102, 7582-7589.	2.6	72
69	Nanoscale Electrochemistry. <i>Physical Review Letters</i> , 1998, 80, 5599-5602.	7.8	70
70	Strain relief during metal-on-metal electrodeposition: a scanning tunneling microscopy study of copper growth on Pt(100). <i>Surface Science</i> , 1997, 376, 267-278.	1.9	35
71	Origin of electrocatalysis in the reduction of peroxodisulfate on gold electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1997, 432, 205-214.	3.8	33
72	The growth of the second underpotentially deposited silver layer on Pt(100). <i>Journal of Electroanalytical Chemistry</i> , 1997, 431, 51-56.	3.8	14

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73	Electrocatalytic reduction of peroxodisulfate anion on Au(111) in acidic aqueous solutions. Journal of Electroanalytical Chemistry, 1996, 409, 165-173.	3.8	21
74	Effects of iodine coating and desorption on the reconstruction of a Pt(110) electrode: a scanning tunnelling microscopy study. Journal of Electroanalytical Chemistry, 1995, 388, 225-231.	3.8	36
75	Bromine adsorption on Pt(111), (100), and (110) – an STM study in air and in electrolyte. Surface Science, 1995, 335, 291-299.	1.9	59
76	Energy transfer in a static electric field. Journal of Luminescence, 1993, 55, 231-242.	3.1	9
77	Three-photon bimolecular absorption. Journal of Physics B: Atomic, Molecular and Optical Physics, 1993, 26, 675-687.	1.5	4
78	The Role of the Microstructure of Copper Deposits During Electroless Plating in Formaldehyde Containing Alkaline Baths. Comparison of Fourier Transform Impedance Spectroscopy and Surface Enhanced Raman Spectroscopy. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1992, 96, 647-656.	0.9	13
79	Selection rules for bimolecular photoabsorption. Chemical Physics, 1992, 165, 1-10.	1.9	9
80	Influence of a magnetic field on line intensities in the optical spectra of free molecules. Journal of the Chemical Society, Faraday Transactions, 1991, 87, 513.	1.7	5