

# 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	Electronic Transport Properties of Individual Chemically Reduced Graphene Oxide Sheets. Nano Letters, 2007, 7, 3499-3503.	9.1	2,177
2	Biotemplate Synthesis of 3-nm Nickel and Cobalt Nanowires. Nano Letters, 2003, 3, 1079-1082.	9.1	397
3	Structural analysis and mapping of individual protein complexes by infrared nanospectroscopy. Nature Communications, 2013, 4, 2890.	12.8	319
4	Spatially Selective Nucleation of Metal Clusters on the Tobacco Mosaic Virus. Advanced Functional Materials, 2004, 14, 116-124.	14.9	235
5	Chemical and electrochemical ageing of carbon materials used in supercapacitor electrodes. Carbon, 2008, 46, 1829-1840.	10.3	178
6	Copper nanowires within the central channel of tobacco mosaic virus particles. Electrochimica Acta, 2006, 51, 6251-6257.	5.2	123
7	Ageing of electrochemical double layer capacitors. Journal of Power Sources, 2012, 203, 262-273.	7.8	121
8	Electrochemical modification of individual nano-objects. Journal of Electroanalytical Chemistry, 2002, 522, 70-74.	3.8	105
9	The physics of tobacco mosaic virus and virus-based devices in biotechnology. Trends in Biotechnology, 2013, 31, 530-538.	9.3	105
10	Binding the Tobacco Mosaic Virus to Inorganic Surfaces. Langmuir, 2004, 20, 441-447.	3.5	103
11	Synthesis, Photoluminescence, and Adsorption of CdS/Dendrimer Nanocomposites. Journal of Physical Chemistry B, 2005, 109, 230-239.	2.6	91
12	Electrospinning of Diphenylalanine Nanotubes. Advanced Materials, 2008, 20, 2332-2336.	21.0	77
13	Kinetic origin of island intermixing during the growth of Ge on Si(001). Physical Review B, 2005, 72, .	3.2	76
14	Electroless Deposition of Metal Nanoislands on Amino-thiolate-Functionalized Au(111) Electrodes. Journal of Physical Chemistry B, 1998, 102, 7582-7589.	2.6	72
15	Nanoscale Electrochemistry. Physical Review Letters, 1998, 80, 5599-5602.	7.8	70
16	Engineered Tobacco mosaic virus mutants with distinct physical characteristics in planta and enhanced metallization properties. Virus Research, 2011, 157, 35-46.	2.2	68
17	Enhancing the Magnetoviscosity of Ferrofluids by the Addition of Biological Nanotubes. ACS Nano, 2010, 4, 4531-4538.	14.6	65
18	Alkanethiolate Reorientation during Metal Electrodeposition. Langmuir, 2002, 18, 773-784.	3.5	60

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19	Self-Assembly of Metalâ€“Virus Nanodumbbells. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3149-3151.	13.8	60
20	Bromine adsorption on Pt(111), (100), and (110) â€” an STM study in air and in electrolyte. <i>Surface Science</i> , 1995, 335, 291-299.	1.9	59
21	Biomolecular rods and tubes in nanotechnology. <i>Die Naturwissenschaften</i> , 2005, 92, 51-64.	1.6	58
22	pH Control of the Electrostatic Binding of Gold and Iron Oxide Nanoparticles to Tobacco Mosaic Virus. <i>Langmuir</i> , 2013, 29, 2094-2098.	3.5	58
23	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
24	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
25	Colloidal Ordered Assemblies in a Polymer Shellâ€”A Novel Type of Magnetic Nanobeads for Theranostic Applications. <i>Chemistry of Materials</i> , 2013, 25, 1055-1062.	6.7	56
26	Inducible Site-Selective Bottom-Up Assembly of Virus-Derived Nanotube Arrays on RNA-Equipped Wafers. <i>ACS Nano</i> , 2011, 5, 4512-4520.	14.6	55
27	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
28	Microcontact Printing of CdS/Dendrimer Nanocomposite Patterns on Silicon Wafers. <i>Advanced Materials</i> , 2004, 16, 413-417.	21.0	53
29	Investigating the lateral motion of SiGe islands by selective chemical etching. <i>Surface Science</i> , 2006, 600, 2608-2613.	1.9	50
30	Clusters on soft matter surfaces. <i>Surface Science Reports</i> , 2006, 61, 383-428.	7.2	46
31	Electroless synthesis of 3 nm wide alloy nanowires inside <i>Tobacco mosaic virus</i> . <i>Nanotechnology</i> , 2012, 23, 045603.	2.6	45
32	Catalytic coating of virus particles with zinc oxide. <i>Electrochimica Acta</i> , 2009, 54, 5149-5154.	5.2	39
33	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
34	Effects of iodine coating and desorption on the reconstruction of a Pt(110) electrode: a scanning tunnelling microscopy study. <i>Journal of Electroanalytical Chemistry</i> , 1995, 388, 225-231.	3.8	36
35	Copper Electrodeposition on Alkanethiolate Covered Gold Electrodes*. <i>Zeitschrift Fur Physikalische Chemie</i> , 1999, 208, 107-136.	2.8	36
36	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

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37	Printing and Aligning Mesoscale Patterns of Tobacco mosaic virus on Surfaces. <i>Advanced Materials</i> , 2008, 20, 2195-2200.	21.0	35
38	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
39	Origin of electrocatalysis in the reduction of peroxodisulfate on gold electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1997, 432, 205-214.	3.8	33
40	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
41	Electroless Metallization of Dendrimer-Coated Micropatterns. <i>Advanced Functional Materials</i> , 2002, 12, 432-436.	14.9	33
42	Nanoscale Science and Technology with Plant Viruses and Bacteriophages. <i>Sub-Cellular Biochemistry</i> , 2013, 68, 667-702.	2.4	32
43	Electrospinning of peptide and protein fibres: approaching the molecular scale. <i>Faraday Discussions</i> , 2013, 166, 209.	3.2	28
44	Electrospinning of Tetraphenylporphyrin Compounds into Wires. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 88-93.	2.3	27
45	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
46	Temperature-Promoted Electrodeposition on Thiolate-Modified Electrodes. <i>Langmuir</i> , 1998, 14, 7292-7297.	3.5	23
47	Protein aggregates nucleate ice: the example of apoferritin. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 3291-3315.	4.9	22
48	Electrocatalytic reduction of peroxodisulfate anion on Au(111) in acidic aqueous solutions. <i>Journal of Electroanalytical Chemistry</i> , 1996, 409, 165-173.	3.8	21
49	Preparation and magnetoviscosity of nanotube ferrofluids by viral scaffolding and ALD on porous templates. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 2412-2423.	1.5	19
50	Vibrational spectroscopy of self-assembling aromatic peptide derivatives. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 1397-1406.	2.5	18
51	A new SERS-active sandwich structure. <i>Journal of Solid State Electrochemistry</i> , 2006, 11, 150-154.	2.5	16
52	Virus-Templated Near-Amorphous Iron Oxide Nanotubes. <i>Langmuir</i> , 2016, 32, 5899-5908.	3.5	16
53	Electrospinning of pyrazole-isothiazole derivatives: nanofibers from small molecules. <i>RSC Advances</i> , 2019, 9, 20565-20572.	3.6	16
54	Charge and spin transport in PEDOT:PSS nanoscale lateral devices. <i>Nanotechnology</i> , 2013, 24, 475201.	2.6	15

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55	Peptide-Based Electrospun Fibers: Current Status and Emerging Developments. <i>Nanomaterials</i> , 2021, 11, 1262.	4.1	15
56	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
57	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
58	Tuning the magnetic properties of NiPS <sub>3</sub> through organic-ion intercalation. <i>Nanoscale</i> , 2022, 14, 1165-1173.	5.6	14
59	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. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1992, 96, 647-656.	0.9	13
60	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
61	Multifrequency Force Microscopy of Helical Protein Assembly on a Virus. <i>Scientific Reports</i> , 2016, 6, 21899.	3.3	13
62	The Condensation of Water on Adsorbed Viruses.. <i>Langmuir</i> , 2013, 29, 14580-14587.	3.5	12
63	Conformations of an amino- $\alpha$ -amido- $\alpha$ -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
64	Ligand grafting method for immobilization of metal complexes on a carbon electrode. <i>Thin Solid Films</i> , 2003, 424, 239-246.	1.8	10
65	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
66	Integration of plant viruses in electron beam lithography nanostructures. <i>Nanotechnology</i> , 2013, 24, 105305.	2.6	10
67	Selection rules for bimolecular photoabsorption. <i>Chemical Physics</i> , 1992, 165, 1-10.	1.9	9
68	Energy transfer in a static electric field. <i>Journal of Luminescence</i> , 1993, 55, 231-242.	3.1	9
69	Biomolecules as soft matter surfaces. <i>Surface Science</i> , 2009, 603, 1922-1925.	1.9	8
70	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
71	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
72	Catalysis of a 1,3-dipolar reaction by distorted DNA incorporating a heterobimetallic platinum( $\text{II}$ ) and copper( $\text{II}$ ) complex. <i>Chemical Science</i> , 2017, 8, 7038-7046.	7.4	6

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73	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
74	Three-photon bimolecular absorption. Journal of Physics B: Atomic, Molecular and Optical Physics, 1993, 26, 675-687.	1.5	4
75	Nanoscale wetting of viruses by ionic liquids. Journal of Molecular Liquids, 2019, 276, 667-674.	4.9	4
76	Zwitterionic ring-opening polymerization for the facile, efficient and versatile grafting of functional polyethers onto graphene sheets. European Polymer Journal, 2015, 73, 413-422.	5.4	3
77	Electroless Deposition Approaching the Molecular Scale. , 2009, , 221-235.		3
78	TMV-Templated Formation of Metal and Polymer Nanotubes. Methods in Molecular Biology, 2018, 1776, 383-392.	0.9	2
79	Nanoscale Wetting of Single Viruses. Molecules, 2021, 26, 5184.	3.8	2
80	The ice-vapour interface during growth and sublimation. Atmospheric Chemistry and Physics, 2021, 21, 18629-18640.	4.9	2