

# Ageeth A Bol

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

106  
papers

6,908  
citations

42  
h-index

82  
g-index

112  
ext. papers

7,545  
ext. citations

6.6  
avg, IF

5.87  
L-index

#	Paper	IF	Citations
106	Effects of the Structure and Temperature on the Nature of Excitons in the MoWS Alloy.. <i>Journal of Physical Chemistry C</i> , <b>2022</b> , 126, 1931-1938	3.8	0
105	Controlling transition metal atomic ordering in two-dimensional Mo <sub>1-x</sub> W <sub>x</sub> S <sub>2</sub> alloys. <i>2D Materials</i> , <b>2022</b> , 9, 025016	5.9	0
104	Thickness and Morphology Dependent Electrical Properties of ALD-Synthesized MoS <sub>2</sub> FETs. <i>Advanced Electronic Materials</i> , <b>2022</b> , 8, 2100781	6.4	0
103	Internal photoemission of electrons from 2D semiconductor/3D metal barrier structures. <i>Journal Physics D: Applied Physics</i> , <b>2021</b> , 54, 295101	3	0
102	On the Contact Optimization of ALD-Based MoS FETs: Correlation of Processing Conditions and Interface Chemistry with Device Electrical Performance. <i>ACS Applied Electronic Materials</i> , <b>2021</b> , 3, 3185-3199	4.199	2
101	Novel microreactor and generic model catalyst platform for the study of fast temperature pulsed operation CO oxidation rate enhancement on Pt. <i>Chemical Engineering Journal</i> , <b>2021</b> , 425, 131559	14.7	2
100	Conformal Growth of Nanometer-Thick Transition Metal Dichalcogenide TiS <sub>2</sub> -NbS <sub>2</sub> Heterostructures over 3D Substrates by Atomic Layer Deposition: Implications for Device Fabrication. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 514-521	5.6	3
99	Large area, patterned growth of 2D MoS <sub>2</sub> and lateral MoS <sub>2</sub> -WS <sub>2</sub> heterostructures for nano- and opto-electronic applications. <i>Nanotechnology</i> , <b>2020</b> , 31, 255603	3.4	28
98	Area-Selective Atomic Layer Deposition of Two-Dimensional WS <sub>2</sub> Nanolayers <b>2020</b> , 2, 511-518		24
97	Cu Electrodeposition on Nanostructured MoS <sub>2</sub> and WS <sub>2</sub> and Implications for HER Active Site Determination. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 116517	3.9	2
96	Anisotropic infrared light emission from quasi-1D layered TiS <sub>3</sub> . <i>2D Materials</i> , <b>2020</b> , 7, 015022	5.9	20
95	Probing the Origin and Suppression of Vertically Oriented Nanostructures of 2D WS <sub>2</sub> Layers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 3873-3885	9.5	14
94	Exploring Voltage Mediated Delamination of Suspended 2D Materials as a Cause of Commonly Observed Breakdown. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 430-435	3.8	1
93	Synthesis of edge-enriched WS <sub>2</sub> on high surface area WS <sub>2</sub> framework by atomic layer deposition for electrocatalytic hydrogen evolution reaction. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2020</b> , 38, 062201	2.9	2
92	Atomic Layer Deposition of Al-Doped MoS <sub>2</sub> : Synthesizing a p-type 2D Semiconductor with Tunable Carrier Density. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 10200-10208	5.6	7
91	Relating the 3D Geometry and Photoelectrochemical Activity of WO <sub>3</sub> -Loaded n-Si Nanowires: Design Rules for Photoelectrodes. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 9628-9634	6.1	3
90	Edge-Site Nanoengineering of WS <sub>2</sub> by Low-Temperature Plasma-Enhanced Atomic Layer Deposition for Electrocatalytic Hydrogen Evolution. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 5104-5115	9.6	35

89	Diffraction enhanced transparency in a hybrid gold-graphene THz metasurface. <i>APL Photonics</i> , <b>2019</b> , 4, 036104	5.2	3
88	The Origin of High Activity of Amorphous MoS in the Hydrogen Evolution Reaction. <i>ChemSusChem</i> , <b>2019</b> , 12, 4383-4389	8.3	54
87	Low-Temperature Phase-Controlled Synthesis of Titanium Di- and Tri-sulfide by Atomic Layer Deposition. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 9354-9362	9.6	15
86	The Origin of High Activity of Amorphous MoS <sub>2</sub> in the Hydrogen Evolution Reaction. <i>ChemSusChem</i> , <b>2019</b> , 12, 4336-4336	8.3	1
85	Polarized Raman spectroscopy to elucidate the texture of synthesized MoS. <i>Nanoscale</i> , <b>2019</b> , 11, 22860-22870	7.7	8
84	Low-temperature plasma-enhanced atomic layer deposition of 2-D MoS: large area, thickness control and tuneable morphology. <i>Nanoscale</i> , <b>2018</b> , 10, 8615-8627	7.7	63
83	Stability of CoP Electrocatalysts in Continuous and Interrupted Acidic Electrolysis of Water. <i>ChemElectroChem</i> , <b>2018</b> , 5, 1230-1239	4.3	26
82	Bottom-up meets top-down: tailored raspberry-like FeO-Pt nanocrystal superlattices. <i>Nanoscale</i> , <b>2018</b> , 10, 5859-5863	7.7	3
81	Plasma-enhanced atomic layer deposition of tungsten oxide thin films using (tBuN) <sub>2</sub> (Me <sub>2</sub> N) <sub>2</sub> W and O <sub>2</sub> plasma. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2018</b> , 36, 01B103	2.9	21
80	Broadband optical response of graphene measured by terahertz time-domain spectroscopy and FTIR spectroscopy. <i>Journal of Applied Physics</i> , <b>2018</b> , 124, 073105	2.5	4
79	Area-Selective Atomic Layer Deposition of Metal Oxides on Noble Metals through Catalytic Oxygen Activation. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 663-670	9.6	72
78	Strategies to facilitate the formation of free standing MoS <sub>2</sub> nanolayers on SiO <sub>2</sub> surface by atomic layer deposition: A DFT study. <i>APL Materials</i> , <b>2018</b> , 6, 111107	5.7	8
77	Pt/Graphene Contacts Fabricated by Plasma Functionalization and Atomic Layer Deposition. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1800268	4.6	7
76	Physical and Chemical Defects in WO <sub>3</sub> Thin Films and Their Impact on Photoelectrochemical Water Splitting. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 5887-5895	6.1	33
75	Initial stage of atomic layer deposition of 2D-MoS on a SiO surface: a DFT study. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 16861-16875	3.6	12
74	Comparison of thermal and plasma-enhanced atomic layer deposition of niobium oxide thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2018</b> , 36, 041503	2.9	21
73	Resist-free fabricated carbon nanotube field-effect transistors with high-quality atomic-layer-deposited platinum contacts. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 013101	3.4	9
72	Atomic layer deposition of HfO <sub>2</sub> using HfCp(NMe <sub>2</sub> ) <sub>3</sub> and O <sub>2</sub> plasma. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2017</b> , 35, 01B130	2.9	19

71	Uniform Atomic Layer Deposition of AlO on Graphene by Reversible Hydrogen Plasma Functionalization. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 2090-2100	9.6	42
70	Graphene devices with bottom-up contacts by area-selective atomic layer deposition. <i>2D Materials</i> , <b>2017</b> , 4, 025046	5.9	14
69	Synthesis of single-walled carbon nanotubes from atomic-layer-deposited Co <sub>3</sub> O <sub>4</sub> and Co <sub>3</sub> O <sub>4</sub> /Fe <sub>2</sub> O <sub>3</sub> catalyst films. <i>Carbon</i> , <b>2017</b> , 121, 389-398	10.4	12
68	Atomic Layer Deposition for Graphene Device Integration. <i>Advanced Materials Interfaces</i> , <b>2017</b> , 4, 1700232	3.6	63
67	In-situ Raman spectroscopy to elucidate the influence of adsorption in graphene electrochemistry. <i>Scientific Reports</i> , <b>2017</b> , 7, 45080	4.9	18
66	Atomic layer deposition of molybdenum oxide from (NtBu) <sub>2</sub> (NMe <sub>2</sub> ) <sub>2</sub> Mo and O <sub>2</sub> plasma. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2016</b> , 34, 01A103	2.9	78
65	Continuous and ultrathin platinum films on graphene using atomic layer deposition: a combined computational and experimental study. <i>Nanoscale</i> , <b>2016</b> , 8, 19829-19845	7.7	30
64	Atomic layer deposition of Pd and Pt nanoparticles for catalysis: on the mechanisms of nanoparticle formation. <i>Nanotechnology</i> , <b>2016</b> , 27, 034001	3.4	70
63	High-Efficiency InP-Based Photocathode for Hydrogen Production by Interface Energetics Design and Photon Management. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 679-686	15.6	61
62	Area-selective atomic layer deposition of platinum using photosensitive polyimide. <i>Nanotechnology</i> , <b>2016</b> , 27, 405302	3.4	27
61	Atomic Layer Deposition <b>2015</b> , 1101-1134		41
60	The effect of residual gas scattering on Ga ion beam patterning of graphene. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 213101	3.4	12
59	Low-temperature atomic layer deposition of MoO <sub>x</sub> for silicon heterojunction solar cells. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2015</b> , 9, 393-396	2.5	72
58	Sub-nanometer dimensions control of core/shell nanoparticles prepared by atomic layer deposition. <i>Nanotechnology</i> , <b>2015</b> , 26, 094002	3.4	55
57	An improved thin film approximation to accurately determine the optical conductivity of graphene from infrared transmittance. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 013105	3.4	8
56	Carbon nanotubes for high-performance logic. <i>MRS Bulletin</i> , <b>2014</b> , 39, 719-726	3.2	10
55	The use of atomic layer deposition in advanced nanopatterning. <i>Nanoscale</i> , <b>2014</b> , 6, 10941-60	7.7	254
54	Atomic Layer Deposition of High-Purity Palladium Films from Pd(hfac) <sub>2</sub> and H <sub>2</sub> and O <sub>2</sub> Plasmas. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 8702-8711	3.8	52

53	Influence of Oxygen Exposure on the Nucleation of Platinum Atomic Layer Deposition: Consequences for Film Growth, Nanopatterning, and Nanoparticle Synthesis. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 1905-1911	9.6	112
52	Direct-Write Atomic Layer Deposition of High-Quality Pt Nanostructures: Selective Growth Conditions and Seed Layer Requirements. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 10788-10798	3.8	53
51	Room-Temperature Atomic Layer Deposition of Platinum. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 1769-1774	9.6	64
50	(Invited) Catalytic Surface Reactions during Nucleation and Growth of Atomic Layer Deposition of Noble Metals: A Case Study for Platinum. <i>ECS Transactions</i> , <b>2013</b> , 58, 183-193	1	4
49	Double Contacts for Improved Performance of Graphene Transistors. <i>IEEE Electron Device Letters</i> , <b>2012</b> , 33, 17-19	4.4	64
48	State-of-the-art graphene high-frequency electronics. <i>Nano Letters</i> , <b>2012</b> , 12, 3062-7	11.5	318
47	High performance metal microstructure for carbon-based transparent conducting electrodes. <i>Thin Solid Films</i> , <b>2012</b> , 520, 4827-4830	2.2	13
46	Structure and electronic transport in graphene wrinkles. <i>Nano Letters</i> , <b>2012</b> , 12, 3431-6	11.5	463
45	Three-terminal graphene negative differential resistance devices. <i>ACS Nano</i> , <b>2012</b> , 6, 2610-6	16.7	131
44	High-frequency graphene voltage amplifier. <i>Nano Letters</i> , <b>2011</b> , 11, 3690-3	11.5	142
43	Effects of Nanoscale Contacts to Graphene. <i>IEEE Electron Device Letters</i> , <b>2011</b> , 32, 1035-1037	4.4	29
42	Large-scale graphene transistors with enhanced performance and reliability based on interface engineering by phenylsilane self-assembled monolayers. <i>Nano Letters</i> , <b>2011</b> , 11, 523-8	11.5	88
41	The graphene-gold interface and its implications for nanoelectronics. <i>Nano Letters</i> , <b>2011</b> , 11, 3833-7	11.5	90
40	High-frequency, scaled graphene transistors on diamond-like carbon. <i>Nature</i> , <b>2011</b> , 472, 74-8	50.4	727
39	Infrared spectroscopy of wafer-scale graphene. <i>ACS Nano</i> , <b>2011</b> , 5, 9854-60	16.7	159
38	Channel-Length-Dependent Transport Behaviors of Graphene Field-Effect Transistors. <i>IEEE Electron Device Letters</i> , <b>2011</b> , 32, 812-814	4.4	55
37	Graphene technology with inverted-T gate and RF passives on 200 mm platform <b>2011</b> ,		11
36	X-ray photoelectron spectroscopy study on Fe and Co catalysts during the first stages of ethanol chemical vapor deposition for single-walled carbon nanotube growth. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 064304	2.5	11

35	Medium energy ion scattering of Gr on SiC(0001) and Si(100). <i>Applied Physics Letters</i> , <b>2011</b> , 98, 113103	3.4	3
34	Metal-catalyzed graphitization in Ni-C alloys and amorphous-C/Ni bilayers. <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1284, 39		
33	Efficient narrow-band light emission from a single carbon nanotube p-n diode. <i>Nature Nanotechnology</i> , <b>2010</b> , 5, 27-31	28.7	155
32	Large low-frequency resistance noise in chemical vapor deposited graphene. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 133504	3.4	34
31	Study of channel length scaling in large-scale graphene FETs <b>2010</b> ,		4
30	Channel and contact length scaling in carbon nanotube transistors <b>2010</b> ,		1
29	<b>2010</b> ,		1
28	Spatially-resolved structure and electronic properties of graphene on polycrystalline Ni. <i>ACS Nano</i> , <b>2010</b> , 4, 7073-7	16.7	51
27	Chemical doping of large-area stacked graphene films for use as transparent, conducting electrodes. <i>ACS Nano</i> , <b>2010</b> , 4, 3839-44	16.7	295
26	In situ x-ray diffraction study of graphitic carbon formed during heating and cooling of amorphous-C/Ni bilayers. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 153105	3.4	71
25	Wafer scale fabrication of carbon nanotube FETs with embedded poly-gates <b>2010</b> ,		2
24	How does the substrate affect the Raman and excited state spectra of a carbon nanotube?. <i>Applied Physics A: Materials Science and Processing</i> , <b>2009</b> , 96, 271-282	2.6	45
23	Carbon nanotube photo- and electroluminescence in longitudinal electric fields. <i>ACS Nano</i> , <b>2009</b> , 3, 3744-3748	6.7	35
22	Gate-variable light absorption and emission in a semiconducting carbon nanotube. <i>Nano Letters</i> , <b>2009</b> , 9, 3477-81	11.5	53
21	Imaging of the Schottky barriers and charge depletion in carbon nanotube transistors. <i>Nano Letters</i> , <b>2007</b> , 7, 2037-42	11.5	116
20	Scanning photovoltage microscopy of potential modulations in carbon nanotubes. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 031101	3.4	31
19	Imaging at High Beam Energies in the Scanning Electron Microscope. <i>Microscopy and Microanalysis</i> , <b>2006</b> , 12, 1444-1445	0.5	
18	Temperature dependence of the luminescence of nanocrystalline CdS/Mn <sup>2+</sup> . <i>Journal of Physics and Chemistry of Solids</i> , <b>2003</b> , 64, 247-252	3.9	37

17	Blueing, Bleaching, and Blinking of Single CdSe/ZnS Quantum Dots. <i>ChemPhysChem</i> , <b>2002</b> , 3, 871-879	3.2	236
16	Time-resolved luminescence of ZnS:Mn <sup>2+</sup> nanocrystals. <i>Journal of Luminescence</i> , <b>2002</b> , 96, 87-93	3.8	40
15	Luminescence of nanocrystalline ZnS:Cu <sup>2+</sup> . <i>Journal of Luminescence</i> , <b>2002</b> , 99, 325-334	3.8	155
14	Time-Resolved Fluorescence Spectroscopy Study on the Photophysical Behavior of Quantum Dots. <i>Journal of Fluorescence</i> , <b>2002</b> , 12, 69-76	2.4	17
13	On the Incorporation of Trivalent Rare Earth Ions in II-VI Semiconductor Nanocrystals. <i>Chemistry of Materials</i> , <b>2002</b> , 14, 1121-1126	9.6	204
12	Luminescence of Nanocrystalline ZnS:Pb <sup>2+</sup> . <i>Physica Status Solidi (B): Basic Research</i> , <b>2001</b> , 224, 173-177	1.3	17
11	Factors Influencing the Luminescence Quantum Efficiency of Nanocrystalline ZnS:Mn <sup>2+</sup> . <i>Physica Status Solidi (B): Basic Research</i> , <b>2001</b> , 224, 291-296	1.3	31
10	Continuous-wave two-photon excitation of individual CdS nanocrystallites. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 830-832	3.4	15
9	Photooxidation and Photobleaching of Single CdSe/ZnS Quantum Dots Probed by Room-Temperature Time-Resolved Spectroscopy. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 8281-8284	3.4	340
8	Luminescence Quantum Efficiency of Nanocrystalline ZnS:Mn <sup>2+</sup> . 1. Surface Passivation and Mn <sup>2+</sup> Concentration. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 10197-10202	3.4	150
7	Luminescence of nanocrystalline ZnS:Pb <sup>2+</sup> . <i>Physical Chemistry Chemical Physics</i> , <b>2001</b> , 3, 2105-2112	3.6	67
6	Luminescence Quantum Efficiency of Nanocrystalline ZnS:Mn <sup>2+</sup> . 2. Enhancement by UV Irradiation. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 10203-10209	3.4	138
5	Luminescence of nanocrystalline ZnS:Pb <sup>2+</sup> . <i>Materials Research Society Symposia Proceedings</i> , <b>2001</b> , 667, 1		
4	Doped semiconductor nanoparticles [a new class of luminescent materials?]. <i>Journal of Luminescence</i> , <b>2000</b> , 87-89, 315-318	3.8	84
3	Magnetic catalyst bodies1Netherlands institute for Research in Catalysis (NIOK) publication #UU 98-1-06.1. <i>Catalysis Today</i> , <b>1999</b> , 48, 329-336	5.3	86
2	Long-lived Mn <sup>2+</sup> emission in nanocrystalline ZnS:Mn <sup>2+</sup> . <i>Physical Review B</i> , <b>1998</b> , 58, R15997-R16000	3.3	376
1	The origin of blue and ultraviolet emission from porous GaP. <i>Applied Physics Letters</i> , <b>1996</b> , 69, 2801-2803	3.4	39