

Ageeth A Bol

List of Publications by Citations

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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	High-frequency, scaled graphene transistors on diamond-like carbon. <i>Nature</i> , 2011 , 472, 74-8	50.4	727
105	Structure and electronic transport in graphene wrinkles. <i>Nano Letters</i> , 2012 , 12, 3431-6	11.5	463
104	Long-lived Mn ²⁺ emission in nanocrystalline ZnS:Mn ²⁺ . <i>Physical Review B</i> , 1998 , 58, R15997-R16000	3.3	376
103	Photooxidation and Photobleaching of Single CdSe/ZnS Quantum Dots Probed by Room-Temperature Time-Resolved Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 8281-8284	3.4	340
102	State-of-the-art graphene high-frequency electronics. <i>Nano Letters</i> , 2012 , 12, 3062-7	11.5	318
101	Chemical doping of large-area stacked graphene films for use as transparent, conducting electrodes. <i>ACS Nano</i> , 2010 , 4, 3839-44	16.7	295
100	The use of atomic layer deposition in advanced nanopatterning. <i>Nanoscale</i> , 2014 , 6, 10941-60	7.7	254
99	Blueing, Bleaching, and Blinking of Single CdSe/ZnS Quantum Dots. <i>ChemPhysChem</i> , 2002 , 3, 871-879	3.2	236
98	On the Incorporation of Trivalent Rare Earth Ions in III-VI Semiconductor Nanocrystals. <i>Chemistry of Materials</i> , 2002 , 14, 1121-1126	9.6	204
97	Infrared spectroscopy of wafer-scale graphene. <i>ACS Nano</i> , 2011 , 5, 9854-60	16.7	159
96	Efficient narrow-band light emission from a single carbon nanotube p-n diode. <i>Nature Nanotechnology</i> , 2010 , 5, 27-31	28.7	155
95	Luminescence of nanocrystalline ZnS:Cu ²⁺ . <i>Journal of Luminescence</i> , 2002 , 99, 325-334	3.8	155
94	Luminescence Quantum Efficiency of Nanocrystalline ZnS:Mn ²⁺ . 1. Surface Passivation and Mn ²⁺ Concentration. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 10197-10202	3.4	150
93	High-frequency graphene voltage amplifier. <i>Nano Letters</i> , 2011 , 11, 3690-3	11.5	142
92	Luminescence Quantum Efficiency of Nanocrystalline ZnS:Mn ²⁺ . 2. Enhancement by UV Irradiation. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 10203-10209	3.4	138
91	Three-terminal graphene negative differential resistance devices. <i>ACS Nano</i> , 2012 , 6, 2610-6	16.7	131
90	Imaging of the Schottky barriers and charge depletion in carbon nanotube transistors. <i>Nano Letters</i> , 2007 , 7, 2037-42	11.5	116

89	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> , 2013 , 25, 1905-1911	9.6	112
88	The graphene-gold interface and its implications for nanoelectronics. <i>Nano Letters</i> , 2011 , 11, 3833-7	11.5	90
87	Large-scale graphene transistors with enhanced performance and reliability based on interface engineering by phenylsilane self-assembled monolayers. <i>Nano Letters</i> , 2011 , 11, 523-8	11.5	88
86	Magnetic catalyst bodies ¹ Netherlands institute for Research in Catalysis (NIOK) publication #UU 98-1-06.1. <i>Catalysis Today</i> , 1999 , 48, 329-336	5.3	86
85	Doped semiconductor nanoparticles as a new class of luminescent materials?. <i>Journal of Luminescence</i> , 2000 , 87-89, 315-318	3.8	84
84	Atomic layer deposition of molybdenum oxide from (NtBu) ₂ (NMe ₂) ₂ Mo and O ₂ plasma. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2016 , 34, 01A103	2.9	78
83	Low-temperature atomic layer deposition of MoO _x for silicon heterojunction solar cells. <i>Physica Status Solidi - Rapid Research Letters</i> , 2015 , 9, 393-396	2.5	72
82	Area-Selective Atomic Layer Deposition of Metal Oxides on Noble Metals through Catalytic Oxygen Activation. <i>Chemistry of Materials</i> , 2018 , 30, 663-670	9.6	72
81	In situ x-ray diffraction study of graphitic carbon formed during heating and cooling of amorphous-C/Ni bilayers. <i>Applied Physics Letters</i> , 2010 , 96, 153105	3.4	71
80	Atomic layer deposition of Pd and Pt nanoparticles for catalysis: on the mechanisms of nanoparticle formation. <i>Nanotechnology</i> , 2016 , 27, 034001	3.4	70
79	Luminescence of nanocrystalline ZnS:Pb ²⁺ . <i>Physical Chemistry Chemical Physics</i> , 2001 , 3, 2105-2112	3.6	67
78	Double Contacts for Improved Performance of Graphene Transistors. <i>IEEE Electron Device Letters</i> , 2012 , 33, 17-19	4.4	64
77	Room-Temperature Atomic Layer Deposition of Platinum. <i>Chemistry of Materials</i> , 2013 , 25, 1769-1774	9.6	64
76	Atomic Layer Deposition for Graphene Device Integration. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700226	4.6	63
75	Low-temperature plasma-enhanced atomic layer deposition of 2-D MoS ₂ : large area, thickness control and tuneable morphology. <i>Nanoscale</i> , 2018 , 10, 8615-8627	7.7	63
74	High-Efficiency InP-Based Photocathode for Hydrogen Production by Interface Energetics Design and Photon Management. <i>Advanced Functional Materials</i> , 2016 , 26, 679-686	15.6	61
73	Sub-nanometer dimensions control of core/shell nanoparticles prepared by atomic layer deposition. <i>Nanotechnology</i> , 2015 , 26, 094002	3.4	55
72	Channel-Length-Dependent Transport Behaviors of Graphene Field-Effect Transistors. <i>IEEE Electron Device Letters</i> , 2011 , 32, 812-814	4.4	55

71	The Origin of High Activity of Amorphous MoS in the Hydrogen Evolution Reaction. <i>ChemSusChem</i> , 2019 , 12, 4383-4389	8.3	54
70	Direct-Write Atomic Layer Deposition of High-Quality Pt Nanostructures: Selective Growth Conditions and Seed Layer Requirements. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 10788-10798	3.8	53
69	Gate-variable light absorption and emission in a semiconducting carbon nanotube. <i>Nano Letters</i> , 2009 , 9, 3477-81	11.5	53
68	Atomic Layer Deposition of High-Purity Palladium Films from Pd(hfac) ₂ and H ₂ and O ₂ Plasmas. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 8702-8711	3.8	52
67	Spatially-resolved structure and electronic properties of graphene on polycrystalline Ni. <i>ACS Nano</i> , 2010 , 4, 7073-7	16.7	51
66	How does the substrate affect the Raman and excited state spectra of a carbon nanotube?. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 96, 271-282	2.6	45
65	Uniform Atomic Layer Deposition of AlO on Graphene by Reversible Hydrogen Plasma Functionalization. <i>Chemistry of Materials</i> , 2017 , 29, 2090-2100	9.6	42
64	Atomic Layer Deposition 2015 , 1101-1134		41
63	Time-resolved luminescence of ZnS:Mn ²⁺ nanocrystals. <i>Journal of Luminescence</i> , 2002 , 96, 87-93	3.8	40
62	The origin of blue and ultraviolet emission from porous GaP. <i>Applied Physics Letters</i> , 1996 , 69, 2801-2803	3.4	39
61	Temperature dependence of the luminescence of nanocrystalline CdS/Mn ²⁺ . <i>Journal of Physics and Chemistry of Solids</i> , 2003 , 64, 247-252	3.9	37
60	Edge-Site Nanoengineering of WS by Low-Temperature Plasma-Enhanced Atomic Layer Deposition for Electrocatalytic Hydrogen Evolution. <i>Chemistry of Materials</i> , 2019 , 31, 5104-5115	9.6	35
59	Carbon nanotube photo- and electroluminescence in longitudinal electric fields. <i>ACS Nano</i> , 2009 , 3, 3744-3748	6.7	35
58	Large low-frequency resistance noise in chemical vapor deposited graphene. <i>Applied Physics Letters</i> , 2010 , 97, 133504	3.4	34
57	Physical and Chemical Defects in WO ₃ Thin Films and Their Impact on Photoelectrochemical Water Splitting. <i>ACS Applied Energy Materials</i> , 2018 , 1, 5887-5895	6.1	33
56	Scanning photovoltage microscopy of potential modulations in carbon nanotubes. <i>Applied Physics Letters</i> , 2007 , 91, 031101	3.4	31
55	Factors Influencing the Luminescence Quantum Efficiency of Nanocrystalline ZnS:Mn ²⁺ . <i>Physica Status Solidi (B): Basic Research</i> , 2001 , 224, 291-296	1.3	31
54	Continuous and ultrathin platinum films on graphene using atomic layer deposition: a combined computational and experimental study. <i>Nanoscale</i> , 2016 , 8, 19829-19845	7.7	30

53	Effects of Nanoscale Contacts to Graphene. <i>IEEE Electron Device Letters</i> , 2011 , 32, 1035-1037	4.4	29
52	Large area, patterned growth of 2D MoS and lateral MoS-WS heterostructures for nano- and opto-electronic applications. <i>Nanotechnology</i> , 2020 , 31, 255603	3.4	28
51	Area-selective atomic layer deposition of platinum using photosensitive polyimide. <i>Nanotechnology</i> , 2016 , 27, 405302	3.4	27
50	Stability of CoP Electrocatalysts in Continuous and Interrupted Acidic Electrolysis of Water. <i>ChemElectroChem</i> , 2018 , 5, 1230-1239	4.3	26
49	Area-Selective Atomic Layer Deposition of Two-Dimensional WS Nanolayers 2020 , 2, 511-518		24
48	Plasma-enhanced atomic layer deposition of tungsten oxide thin films using (tBuN) ₂ (Me ₂ N) ₂ W and O ₂ plasma. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2018 , 36, 01B103	2.9	21
47	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> , 2018 , 36, 041503	2.9	21
46	Anisotropic infrared light emission from quasi-1D layered TiS ₃ . <i>2D Materials</i> , 2020 , 7, 015022	5.9	20
45	Atomic layer deposition of HfO ₂ using HfCp(NMe ₂) ₃ and O ₂ plasma. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2017 , 35, 01B130	2.9	19
44	In-situ Raman spectroscopy to elucidate the influence of adsorption in graphene electrochemistry. <i>Scientific Reports</i> , 2017 , 7, 45080	4.9	18
43	Time-Resolved Fluorescence Spectroscopy Study on the Photophysical Behavior of Quantum Dots. <i>Journal of Fluorescence</i> , 2002 , 12, 69-76	2.4	17
42	Luminescence of Nanocrystalline ZnS:Pb ²⁺ . <i>Physica Status Solidi (B): Basic Research</i> , 2001 , 224, 173-177	1.3	17
41	Low-Temperature Phase-Controlled Synthesis of Titanium Di- and Tri-sulfide by Atomic Layer Deposition. <i>Chemistry of Materials</i> , 2019 , 31, 9354-9362	9.6	15
40	Continuous-wave two-photon excitation of individual CdS nanocrystallites. <i>Applied Physics Letters</i> , 2001 , 79, 830-832	3.4	15
39	Graphene devices with bottom-up contacts by area-selective atomic layer deposition. <i>2D Materials</i> , 2017 , 4, 025046	5.9	14
38	Probing the Origin and Suppression of Vertically Oriented Nanostructures of 2D WS Layers. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 3873-3885	9.5	14
37	High performance metal microstructure for carbon-based transparent conducting electrodes. <i>Thin Solid Films</i> , 2012 , 520, 4827-4830	2.2	13
36	Synthesis of single-walled carbon nanotubes from atomic-layer-deposited Co ₃ O ₄ and Co ₃ O ₄ /Fe ₂ O ₃ catalyst films. <i>Carbon</i> , 2017 , 121, 389-398	10.4	12

35	The effect of residual gas scattering on Ga ion beam patterning of graphene. <i>Applied Physics Letters</i> , 2015 , 107, 213101	3.4	12
34	Initial stage of atomic layer deposition of 2D-MoS on a SiO surface: a DFT study. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 16861-16875	3.6	12
33	Graphene technology with inverted-T gate and RF passives on 200 mm platform 2011 ,		11
32	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> , 2011 , 109, 064304	2.5	11
31	Carbon nanotubes for high-performance logic. <i>MRS Bulletin</i> , 2014 , 39, 719-726	3.2	10
30	Resist-free fabricated carbon nanotube field-effect transistors with high-quality atomic-layer-deposited platinum contacts. <i>Applied Physics Letters</i> , 2017 , 110, 013101	3.4	9
29	An improved thin film approximation to accurately determine the optical conductivity of graphene from infrared transmittance. <i>Applied Physics Letters</i> , 2014 , 105, 013105	3.4	8
28	Polarized Raman spectroscopy to elucidate the texture of synthesized MoS. <i>Nanoscale</i> , 2019 , 11, 22860-22870	3.7	8
27	Strategies to facilitate the formation of free standing MoS ₂ nanolayers on SiO ₂ surface by atomic layer deposition: A DFT study. <i>APL Materials</i> , 2018 , 6, 111107	5.7	8
26	Atomic Layer Deposition of Al-Doped MoS: Synthesizing a p-type 2D Semiconductor with Tunable Carrier Density. <i>ACS Applied Nano Materials</i> , 2020 , 3, 10200-10208	5.6	7
25	Pt/Graphene Contacts Fabricated by Plasma Functionalization and Atomic Layer Deposition. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800268	4.6	7
24	Broadband optical response of graphene measured by terahertz time-domain spectroscopy and FTIR spectroscopy. <i>Journal of Applied Physics</i> , 2018 , 124, 073105	2.5	4
23	(Invited) Catalytic Surface Reactions during Nucleation and Growth of Atomic Layer Deposition of Noble Metals: A Case Study for Platinum. <i>ECS Transactions</i> , 2013 , 58, 183-193	1	4
22	Study of channel length scaling in large-scale graphene FETs 2010 ,		4
21	Diffraction enhanced transparency in a hybrid gold-graphene THz metasurface. <i>APL Photonics</i> , 2019 , 4, 036104	5.2	3
20	Bottom-up meets top-down: tailored raspberry-like FeO-Pt nanocrystal superlattices. <i>Nanoscale</i> , 2018 , 10, 5859-5863	7.7	3
19	Medium energy ion scattering of Gr on SiC(0001) and Si(100). <i>Applied Physics Letters</i> , 2011 , 98, 113103	3.4	3
18	Relating the 3D Geometry and Photoelectrochemical Activity of WO ₃ -Loaded n-Si Nanowires: Design Rules for Photoelectrodes. <i>ACS Applied Energy Materials</i> , 2020 , 3, 9628-9634	6.1	3

17	Conformal Growth of Nanometer-Thick Transition Metal Dichalcogenide TIS -Nbs Heterostructures over 3D Substrates by Atomic Layer Deposition: Implications for Device Fabrication. <i>ACS Applied Nano Materials</i> , 2021 , 4, 514-521	5.6	3
16	Wafer scale fabrication of carbon nanotube FETs with embedded poly-gates 2010 ,		2
15	Cu Electrodeposition on Nanostructured MoS ₂ and WS ₂ and Implications for HER Active Site Determination. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 116517	3.9	2
14	Synthesis of edge-enriched WS ₂ on high surface area WS ₂ framework by atomic layer deposition for electrocatalytic hydrogen evolution reaction. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2020 , 38, 062201	2.9	2
13	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> , 2021 , 3, 3185-3199	4.1	2
12	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> , 2021 , 425, 131559	14.7	2
11	The Origin of High Activity of Amorphous MoS ₂ in the Hydrogen Evolution Reaction. <i>ChemSusChem</i> , 2019 , 12, 4336-4336	8.3	1
10	Channel and contact length scaling in carbon nanotube transistors 2010 ,		1
9	2010 ,		1
8	Exploring Voltage Mediated Delamination of Suspended 2D Materials as a Cause of Commonly Observed Breakdown. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 430-435	3.8	1
7	Internal photoemission of electrons from 2D semiconductor/3D metal barrier structures. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 295101	3	0
6	Controlling transition metal atomic ordering in two-dimensional Mo _{1-x} W _x S ₂ alloys. <i>2D Materials</i> , 2022 , 9, 025016	5.9	0
5	Thickness and Morphology Dependent Electrical Properties of ALD-Synthesized MoS ₂ FETs. <i>Advanced Electronic Materials</i> , 2022 , 8, 2100781	6.4	0
4	Metal-catalyzed graphitization in Ni-C alloys and amorphous-C/Ni bilayers. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1284, 39		
3	Imaging at High Beam Energies in the Scanning Electron Microscope. <i>Microscopy and Microanalysis</i> , 2006 , 12, 1444-1445	0.5	
2	Luminescence of nanocrystalline ZnS:Pb ²⁺ . <i>Materials Research Society Symposia Proceedings</i> , 2001 , 667, 1		
1	Effects of the Structure and Temperature on the Nature of Excitons in the MoWS Alloy.. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 1931-1938	3.8	