

# Robert M Wallace

## List of Publications by Year in descending order

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414  
papers

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7672

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3595

187  
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419  
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419  
docs citations

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times ranked

39181  
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>In situ</i> isotope study of indium diffusion in InP/Al <sub>2</sub> O <sub>3</sub> stacks. Applied Physics Letters, 2022, 120, .	1.5	3
2	Morphology-dependent fluorescence of europium-doped cerium oxide nanomaterials. Nanoscale Advances, 2021, 3, 3563-3572.	2.2	7
3	Controlling the Pd Metal Contact Polarity to Trigonal Tellurium by Atomic Hydrogen Removal of the Native Tellurium Oxide. Advanced Materials Interfaces, 2021, 8, 2002050.	1.9	10
4	Interface Chemistry and Band Alignment Study of Ni and Ag Contacts on MoS <sub>2</sub> . ACS Applied Materials & Interfaces, 2021, 13, 15802-15810.	4.0	22
5	Passivation of III-V surfaces with crystalline oxidation. Applied Physics Reviews, 2021, 8, .	5.5	23
6	Understanding and optimization of graphene gas sensors. Applied Physics Letters, 2021, 119, 013104.	1.5	27
7	Surface and interfacial study of atomic layer deposited Al <sub>2</sub> O <sub>3</sub> on MoTe <sub>2</sub> and WTe <sub>2</sub> . Nanotechnology, 2020, 31, 055704.	1.3	9
8	Scalable BEOL compatible 2D tungsten diselenide. 2D Materials, 2020, 7, 015029.	2.0	41
9	Atomic Layer Deposition of Layered Boron Nitride for Large-Area 2D Electronics. ACS Applied Materials & Interfaces, 2020, 12, 36688-36694.	4.0	22
10	Dielectric breakdown in epitaxial BaTiO <sub>3</sub> thin films. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2020, 38, 044007.	0.6	3
11	Modification of the Electronic Transport in Atomically Thin WSe <sub>2</sub> by Oxidation. Advanced Materials Interfaces, 2020, 7, 2000422.	1.9	11
12	Origins of Fermi Level Pinning between Tungsten Dichalcogenides (WS <sub>2</sub> , WTe <sub>2</sub> ) and Bulk Metal Contacts: Interface Chemistry and Band Alignment. Journal of Physical Chemistry C, 2020, 124, 14550-14563.	1.5	19
13	Atomically Controlled Tunable Doping in High-Performance WSe <sub>2</sub> Devices. Advanced Electronic Materials, 2020, 6, 1901304.	2.6	46
14	Doping Induced Schottky Barrier Realignment For Unipolar and High Hole Current WSe <sub>2</sub> Devices with > 10 <sup>8</sup> On/off Ratio. IEEE Electron Device Letters, 2020, , 1-1.	2.2	6
15	Giant renormalization of dopant impurity levels in 2D semiconductor MoS <sub>2</sub> . Scientific Reports, 2020, 10, 4938.	1.6	8
16	<i>In situ</i> exfoliated 2D molybdenum disulfide analyzed by XPS. Surface Science Spectra, 2020, 27, .	0.3	21
17	Impact of Etch Processes on the Chemistry and Surface States of the Topological Insulator Bi <sub>2</sub> Se <sub>3</sub> . ACS Applied Materials & Interfaces, 2019, 11, 32144-32150.	4.0	9
18	Origins of Fermi-Level Pinning between Molybdenum Dichalcogenides (MoSe <sub>2</sub> ,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 T Physical Chemistry C, 2019, 123, 23919-23930.	1.5	20

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19	Contact Engineering High-Performance n-Type MoTe <sub>2</sub> Transistors. Nano Letters, 2019, 19, 6352-6362.	4.5	87
20	WSe <sub>2</sub> Te <sub>2</sub> alloys grown by molecular beam epitaxy. 2D Materials, 2019, 6, 045027.	2.0	20
21	Understanding the Impact of Annealing on Interface and Border Traps in the Cr/HfO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> /MoS <sub>2</sub> System. ACS Applied Electronic Materials, 2019, 1, 1372-1377.	2.0	16
22	Engineering the interface chemistry for scandium electron contacts in WSe <sub>2</sub> transistors and diodes. 2D Materials, 2019, 6, 045020.	2.0	13
23	Enhancing Interconnect Reliability and Performance by Converting Tantalum to 2D Layered Tantalum Sulfide at Low Temperature. Advanced Materials, 2019, 31, e1902397.	11.1	35
24	Relatively Low-Temperature Processing and Its Impact on Device Performance and Reliability. ECS Transactions, 2019, 90, 89-97.	0.3	1
25	High- $\epsilon$ Dielectric on ReS <sub>2</sub> : In-Situ Thermal Versus Plasma-Enhanced Atomic Layer Deposition of Al <sub>2</sub> O <sub>3</sub> . Materials, 2019, 12, 1056.	1.3	14
26	Unusual oxidation-induced core-level shifts at the HfO <sub>2</sub> /InP interface. Scientific Reports, 2019, 9, 1462.	1.6	9
27	2D bismuth telluride analyzed by XPS. Surface Science Spectra, 2019, 26, .	0.3	6
28	2D topological insulator bismuth selenide analyzed by in situ XPS. Surface Science Spectra, 2019, 26, 024014.	0.3	3
29	Strategic Selection of the Oxygen Source for Low Temperature Atomic Layer Deposition of Al <sub>2</sub> O <sub>3</sub> Thin Film. Advanced Electronic Materials, 2019, 5, 1800680.	2.6	13
30	Contact Engineering for Dual-Gate MoS <sub>2</sub> Transistors Using O <sub>2</sub> Plasma Exposure. ACS Applied Electronic Materials, 2019, 1, 210-219.	2.0	40
31	Engineering the Palladium-WSe <sub>2</sub> Interface Chemistry for Field Effect Transistors with High-Performance Hole Contacts. ACS Applied Nano Materials, 2019, 2, 75-88.	2.4	24
32	UV-Ozone Functionalization of 2D Materials. Jom, 2019, 71, 224-237.	0.9	19
33	Using photoelectron spectroscopy in the integration of 2D materials for advanced devices. Journal of Electron Spectroscopy and Related Phenomena, 2019, 231, 94-103.	0.8	5
34	(Invited) 2D Materials for Nanoelectronics: Prospects and Materials Integration Challenges. ECS Meeting Abstracts, 2019, .	0.0	0
35	One dimensional metallic edges in atomically thin WSe <sub>2</sub> induced by air exposure. 2D Materials, 2018, 5, 025017.	2.0	47
36	Interface chemistry and surface morphology evolution study for InAs/Al <sub>2</sub> O <sub>3</sub> stacks upon in situ ultrahigh vacuum annealing. Applied Surface Science, 2018, 443, 567-574.	3.1	7

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37	2D Materials: Tuning the Electronic and Photonic Properties of Monolayer MoS <sub>2</sub> via In Situ Rhenium Substitutional Doping (Adv. Funct. Mater. 16/2018). Advanced Functional Materials, 2018, 28, 1870105.	7.8	1
38	Tuning the Electronic and Photonic Properties of Monolayer MoS <sub>2</sub> via In Situ Rhenium Substitutional Doping. Advanced Functional Materials, 2018, 28, 1706950.	7.8	137
39	Covalent nitrogen doping in molecular beam epitaxy-grown and bulk WSe <sub>2</sub> . APL Materials, 2018, 6, .	2.2	21
40	Realizing Large-Scale, Electronic-Grade Two-Dimensional Semiconductors. ACS Nano, 2018, 12, 965-975.	7.3	172
41	Evaluation of border traps and interface traps in HfO <sub>2</sub> /MoS <sub>2</sub> gate stacks by capacitance-voltage analysis. 2D Materials, 2018, 5, 031002.	2.0	63
42	MBE growth of few-layer 2H-MoTe <sub>2</sub> on 3D substrates. Journal of Crystal Growth, 2018, 482, 61-69.	0.7	43
43	Investigation of the Physical Properties of Plasma Enhanced Atomic Layer Deposited Silicon Nitride as Etch Stopper. ACS Applied Materials & Interfaces, 2018, 10, 44825-44833.	4.0	26
44	Molecular Beam Epitaxy of Transition Metal Dichalcogenides. , 2018, , 515-531.		19
45	Dislocation driven spiral and non-spiral growth in layered chalcogenides. Nanoscale, 2018, 10, 15023-15034.	2.8	24
46	Sensitivity of high-k encapsulated MoS <sub>2</sub> transistors to I-V measurement execution time. , 2018, , .		0
47	High-Mobility Helical Tellurium Field-Effect Transistors Enabled by Transfer-Free, Low-Temperature Direct Growth. Advanced Materials, 2018, 30, e1803109.	11.1	71
48	Electrical characterization of process induced effects on non-silicon devices. , 2018, , .		0
49	Research Update: Recent progress on 2D materials beyond graphene: From ripples, defects, intercalation, and valley dynamics to straintronics and power dissipation. APL Materials, 2018, 6, .	2.2	30
50	Fermi Level Manipulation through Native Doping in the Topological Insulator Bi <sub>2</sub> Se <sub>3</sub> . ACS Nano, 2018, 12, 6310-6318.	7.3	37
51	Dual-gate MoS <sub>2</sub> transistors with sub-10-nm top-gate high-k dielectrics. Applied Physics Letters, 2018, 112, .	1.5	42
52	Electronic transport across metal-graphene edge contact. 2D Materials, 2017, 4, 025033.	2.0	4
53	Effects of annealing on top-gated MoS <sub>2</sub> transistors with HfO <sub>2</sub> dielectric. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2017, 35, .	0.6	31
54	WTe <sub>2</sub> thin films grown by beam-interrupted molecular beam epitaxy. 2D Materials, 2017, 4, 025044.	2.0	48

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55	New Mo <sub>6</sub> Te <sub>6</sub> Sub-10 nm Diameter Nanowire Phase from 2H-MoTe <sub>2</sub> . <i>Advanced Materials</i> , 2017, 29, 1606264.	11.1	64
56	Electrical characterization of top-gated molybdenum disulfide field-effect-transistors with high-k dielectrics. <i>Microelectronic Engineering</i> , 2017, 178, 190-193.	1.1	26
57	WSe <sub>2</sub> -contact metal interface chemistry and band alignment under high vacuum and ultra high vacuum deposition conditions. <i>2D Materials</i> , 2017, 4, 025084.	2.0	77
58	Systematic study of electronic structure and band alignment of monolayer transition metal dichalcogenides in Van der Waals heterostructures. <i>2D Materials</i> , 2017, 4, 015026.	2.0	160
59	Impurity and silicate formation dependence on O <sub>3</sub> pulse time and the growth temperature in atomic-layer-deposited La <sub>2</sub> O <sub>3</sub> thin films. <i>Journal of Chemical Physics</i> , 2017, 146, 052821.	1.2	3
60	(Invited) Integration of 2D Materials for Advanced Devices: Challenges and Opportunities. <i>ECS Transactions</i> , 2017, 79, 11-20.	0.3	7
61	Computational Study of MoS <sub>2</sub> /HfO <sub>2</sub> Defective Interfaces for Nanometer-Scale Electronics. <i>ACS Omega</i> , 2017, 2, 2827-2834.	1.6	16
62	Carbon-assisted chemical vapor deposition of hexagonal boron nitride. <i>2D Materials</i> , 2017, 4, 025117.	2.0	54
63	A crystalline oxide passivation on In <sub>0.53</sub> Ga <sub>0.47</sub> As (100). <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	9
64	Intrinsic air stability mechanisms of two-dimensional transition metal dichalcogenide surfaces: basal versus edge oxidation. <i>2D Materials</i> , 2017, 4, 025050.	2.0	87
65	(Invited) Investigation of Critical Interfaces in Few-Layer MoS <sub>2</sub> Field Effect Transistors with High-k Dielectrics. <i>ECS Transactions</i> , 2017, 80, 219-225.	0.3	3
66	Interface Chemistry of Contact Metals and Ferromagnets on the Topological Insulator Bi <sub>2</sub> Se <sub>3</sub> . <i>Journal of Physical Chemistry C</i> , 2017, 121, 23551-23563.	1.5	71
67	(Invited) High-K Dielectrics: A Perspective on Applications from Silicon to 2D Materials. <i>ECS Transactions</i> , 2017, 80, 17-27.	0.3	2
68	Schottky Barrier Height of Pd/MoS <sub>2</sub> Contact by Large Area Photoemission Spectroscopy. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 38977-38983.	4.0	36
69	Sub-10 nm Tunable Hybrid Dielectric Engineering on MoS <sub>2</sub> for Two-Dimensional Material-Based Devices. <i>ACS Nano</i> , 2017, 11, 10243-10252.	7.3	28
70	Al <sub>2</sub> O <sub>3</sub> on WSe <sub>2</sub> by ozone based atomic layer deposition: Nucleation and interface study. <i>APL Materials</i> , 2017, 5, .	2.2	11
71	Nucleation and growth of WSe <sub>2</sub> : enabling large grain transition metal dichalcogenides. <i>2D Materials</i> , 2017, 4, 045019.	2.0	96
72	In Situ Heating Study of 2H-MoTe <sub>2</sub> to Mo <sub>6</sub> Te <sub>6</sub> Nanowire Phase Transition. <i>Microscopy and Microanalysis</i> , 2017, 23, 1764-1765.	0.2	2

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73	A kinetic Monte Carlo simulation method of van der Waals epitaxy for atomistic nucleation-growth processes of transition metal dichalcogenides. <i>Scientific Reports</i> , 2017, 7, 2977.	1.6	72
74	Improvement in top-gate MoS <sub>2</sub> transistor performance due to high quality backside Al <sub>2</sub> O <sub>3</sub> layer. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	56
75	Defects and Surface Structural Stability of MoTe <sub>2</sub> Under Vacuum Annealing. <i>ACS Nano</i> , 2017, 11, 11005-11014.	7.3	117
76	Probing Interface Defects in Top-Gated MoS <sub>2</sub> Transistors with Impedance Spectroscopy. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 24348-24356.	4.0	38
77	Test structures for understanding the impact of ultra-high vacuum metal deposition on top-gate MoS <sub>2</sub> field-effect-transistors. , 2017, , .		1
78	Reduction of Fermi level pinning at Au/MoS <sub>2</sub> interfaces by atomic passivation on Au surface. <i>2D Materials</i> , 2017, 4, 015019.	2.0	40
79	Dielectric Materials for Microelectronics. <i>Springer Handbooks</i> , 2017, , 1-1.	0.3	15
80	(Invited) High-K Dielectrics: A Perspective on Applications from Silicon to 2D Materials. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	0
81	(Invited) Investigation of Critical Interfaces in Few-Layer MoS <sub>2</sub> Field Effect Transistors with High-k Dielectrics. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	0
82	Remote Plasma Oxidation and Atomic Layer Etching of MoS <sub>2</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 19119-19126.	4.0	145
83	(Invited) Evaluation of Few-Layer MoS <sub>2</sub> Transistors with a Top Gate and HfO <sub>2</sub> Dielectric. <i>ECS Transactions</i> , 2016, 75, 153-162.	0.3	10
84	<i>In situ</i> surface and interface study of crystalline (3Å-1)-O on InAs. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	8
85	Band alignments between SmTiO <sub>3</sub> , GdTio <sub>3</sub> , and SrTiO <sub>3</sub> . <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2016, 34, .	0.9	6
86	Atomic and Electronic Structures of WTe <sub>2</sub> Probed by High Resolution Electron Microscopy and ab Initio Calculations. <i>Journal of Physical Chemistry C</i> , 2016, 120, 8364-8369.	1.5	37
87	Tuning electronic transport in epitaxial graphene-based van der Waals heterostructures. <i>Nanoscale</i> , 2016, 8, 8947-8954.	2.8	21
88	Atomically-thin layered films for device applications based upon 2D TMDC materials. <i>Thin Solid Films</i> , 2016, 616, 482-501.	0.8	104
89	Covalent Nitrogen Doping and Compressive Strain in MoS <sub>2</sub> by Remote N <sub>2</sub> Plasma Exposure. <i>Nano Letters</i> , 2016, 16, 5437-5443.	4.5	323
90	Superacid Passivation of Crystalline Silicon Surfaces. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 24205-24211.	4.0	38

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91	Two-dimensional gallium nitride realized via graphene encapsulation. <i>Nature Materials</i> , 2016, 15, 1166-1171.	13.3	626
92	Surface Analysis of WSe <sub>2</sub> Crystals: Spatial and Electronic Variability. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 26400-26406.	4.0	73
93	Controllable growth of layered selenide and telluride heterostructures and superlattices using molecular beam epitaxy. <i>Journal of Materials Research</i> , 2016, 31, 900-910.	1.2	85
94	Charge Mediated Reversible Metal-Insulator Transition in Monolayer MoTe <sub>2</sub> and W <sub>x</sub> Mo <sub>1-x</sub> Te <sub>2</sub> Alloy. <i>ACS Nano</i> , 2016, 10, 7370-7375.	7.3	133
95	Electronic properties of MoS <sub>2</sub> /MoO <sub>x</sub> interfaces: Implications in Tunnel Field Effect Transistors and Hole Contacts. <i>Scientific Reports</i> , 2016, 6, 33562.	1.6	40
96	Formation of a ZnO/ZnS interface passivation layer on (NH <sub>4</sub> ) <sub>2</sub> S treated In <sub>0.53</sub> Ga <sub>0.47</sub> As: Electrical and in-situ X-ray photoelectron spectroscopy characterization. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 08PC02.	0.8	10
97	Contact Metal-MoS <sub>2</sub> Interfacial Reactions and Potential Implications on MoS <sub>2</sub> -Based Device Performance. <i>Journal of Physical Chemistry C</i> , 2016, 120, 14719-14729.	1.5	114
98	First principles kinetic Monte Carlo study on the growth patterns of WSe <sub>2</sub> monolayer. <i>2D Materials</i> , 2016, 3, 025029.	2.0	59
99	Top-gated MoS <sub>2</sub> capacitors and transistors with high-k dielectrics for interface study. , 2016, , .		3
100	Reduced impurities and improved electrical properties of atomic-layer-deposited HfO <sub>2</sub> film grown at a low temperature (100 Å°C) by Al <sub>2</sub> O <sub>3</sub> incorporation. <i>Applied Surface Science</i> , 2016, 371, 360-364.	3.1	4
101	Partially Fluorinated Graphene: Structural and Electrical Characterization. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 5002-5008.	4.0	82
102	MoS <sub>2</sub> -Titanium Contact Interface Reactions. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 8289-8294.	4.0	108
103	Recombination Kinetics and Effects of Superacid Treatment in Sulfur- and Selenium-Based Transition Metal Dichalcogenides. <i>Nano Letters</i> , 2016, 16, 2786-2791.	4.5	233
104	Origin of Indium Diffusion in High-k Oxide HfO <sub>2</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 7595-7600.	4.0	28
105	Theoretical Demonstration of the Ionic Barristor. <i>Nano Letters</i> , 2016, 16, 2090-2095.	4.5	9
106	Toward Atomic-Scale Patterned Atomic Layer Deposition: Reactions of Al <sub>2</sub> O <sub>3</sub> Precursors on a Si(001) Surface with Mixed Functionalizations. <i>Journal of Physical Chemistry C</i> , 2016, 120, 2628-2641.	1.5	17
107	(Invited) TMD Materials Challenges: Defects, Impurities, Passivation and Interfaces. <i>ECS Meeting Abstracts</i> , 2016, , .	0.0	0
108	(Invited) Evaluation of Few-Layer MoS <sub>2</sub> Transistors with a Top Gate and HfO <sub>2</sub> Dielectric. <i>ECS Meeting Abstracts</i> , 2016, , .	0.0	0

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109	<i>In situ</i> plasma enhanced atomic layer deposition half cycle study of Al <sub>2</sub> O <sub>3</sub> on AlGaN/GaN high electron mobility transistors. Applied Physics Letters, 2015, 107, .	1.5	18
110	Materials Design on the Origin of Gap States in a High- $\hat{\nu}$ /GaAs Interface. Engineering, 2015, 1, 372-377.	3.2	3
111	Atomically Traceable Nanostructure Fabrication. Journal of Visualized Experiments, 2015, , e52900.	0.2	2
112	Phase stability of transition metal dichalcogenide by competing ligand field stabilization and charge density wave. 2D Materials, 2015, 2, 035019.	2.0	29
113	Surface Defects on Natural MoS <sub>2</sub> . ACS Applied Materials & Interfaces, 2015, 7, 11921-11929.	4.0	303
114	(Invited) Excellent Wetting Behavior of Yttria on 2D Materials. ECS Transactions, 2015, 69, 325-336.	0.3	2
115	GaN as an Interfacial Passivation Layer: Tuning Band Offset and Removing Fermi Level Pinning for III-V MOS Devices. ACS Applied Materials & Interfaces, 2015, 7, 5141-5149.	4.0	41
116	Highly Scalable, Atomically Thin WSe <sub>2</sub> Grown <i>via</i> Metal-Organic Chemical Vapor Deposition. ACS Nano, 2015, 9, 2080-2087.	7.3	339
117	Seeding Atomic Layer Deposition of Alumina on Graphene with Yttria. ACS Applied Materials & Interfaces, 2015, 7, 2082-2087.	4.0	15
118	Line shape and composition of the In 3d <sub>5/2</sub> core-level photoemission for the interface analysis of In-containing III-V semiconductors. Applied Surface Science, 2015, 329, 371-375.	3.1	5
119	HfO <sub>2</sub> on UV-O <sub>3</sub> exposed transition metal dichalcogenides: interfacial reactions study. 2D Materials, 2015, 2, 014004.	2.0	98
120	Al <sub>2</sub> O <sub>3</sub> on Black Phosphorus by Atomic Layer Deposition: An <i>In Situ</i> Interface Study. ACS Applied Materials & Interfaces, 2015, 7, 13038-13043.	4.0	81
121	Atomically thin resonant tunnel diodes built from synthetic van der Waals heterostructures. Nature Communications, 2015, 6, 7311.	5.8	382
122	Surface oxidation energetics and kinetics on MoS <sub>2</sub> monolayer. Journal of Applied Physics, 2015, 117, .	1.1	202
123	A comparative study of atomic layer deposition of Al <sub>2</sub> O <sub>3</sub> and HfO <sub>2</sub> on AlGaN/GaN. Journal of Materials Science: Materials in Electronics, 2015, 26, 4638-4643.	1.1	25
124	Comprehensive structural and optical characterization of MBE grown MoSe <sub>2</sub> on graphite, CaF <sub>2</sub> and graphene. 2D Materials, 2015, 2, 024007.	2.0	120
125	Low temperature synthesis of graphite on Ni films using inductively coupled plasma enhanced CVD. Journal of Materials Chemistry C, 2015, 3, 5192-5198.	2.7	34
126	Surface and interfacial study of half cycle atomic layer deposited Al <sub>2</sub> O <sub>3</sub> on black phosphorus. Microelectronic Engineering, 2015, 147, 1-4.	1.1	15



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127	Oxidation of GaSb(100) and its control studied by scanning tunneling microscopy and spectroscopy. Applied Physics Letters, 2015, 107, 061601.	1.5	8
128	Impurities and Electronic Property Variations of Natural MoS <sub>2</sub> Crystal Surfaces. ACS Nano, 2015, 9, 9124-9133.	7.3	240
129	In-situ XPS study of ALD ZnO passivation of p-In <sub>0.53</sub> Ga <sub>0.47</sub> As. Electronic Materials Letters, 2015, 11, 769-774.	1.0	9
130	Manganese Doping of Monolayer MoS <sub>2</sub> : The Substrate Is Critical. Nano Letters, 2015, 15, 6586-6591.	4.5	357
131	Near-unity photoluminescence quantum yield in MoS <sub>2</sub> . Science, 2015, 350, 1065-1068.	6.0	993
132	<i>In Situ</i> TEM Characterization of Shear-Stress-Induced Interlayer Sliding in the Cross Section View of Molybdenum Disulfide. ACS Nano, 2015, 9, 1543-1551.	7.3	93
133	HfSe <sub>2</sub> Thin Films: 2D Transition Metal Dichalcogenides Grown by Molecular Beam Epitaxy. ACS Nano, 2015, 9, 474-480.	7.3	195
134	High-K materials and metal gates for CMOS applications. Materials Science and Engineering Reports, 2015, 88, 1-41.	14.8	542
135	Correlating interface chemistry and device behavior. , 2014, , .		0
136	High quality HfO <sub>2</sub> /p-GaSb(001) metal-oxide-semiconductor capacitors with 0.8%nm equivalent oxide thickness. Applied Physics Letters, 2014, 105, .	1.5	20
137	MoS <sub>2</sub> functionalization for ultra-thin atomic layer deposited dielectrics. Applied Physics Letters, 2014, 104, .	1.5	171
138	<i>In situ</i> x-ray photoelectron spectroscopy and capacitance voltage characterization of plasma treatments for Al <sub>2</sub> O <sub>3</sub> /AlGaIn/GaN stacks. Applied Physics Letters, 2014, 105, .	1.5	20
139	Diffusion of In <sub>0.53</sub> Ga <sub>0.47</sub> As elements through hafnium oxide during post deposition annealing. Applied Physics Letters, 2014, 104, .	1.5	23
140	A crystalline oxide passivation for Al <sub>2</sub> O <sub>3</sub> /AlGaIn/GaN. Applied Physics Letters, 2014, 105, .	1.5	57
141	Pattern transfer of hydrogen depassivation lithography patterns into silicon with atomically traceable placement and size control. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2014, 32, .	0.6	16
142	Electronic properties of InP (001)/HfO <sub>2</sub> (001) interface: Band offsets and oxygen dependence. Journal of Applied Physics, 2014, 115, .	1.1	15
143	Accumulation capacitance frequency dispersion of III-V metal-insulator-semiconductor devices due to disorder induced gap states. Journal of Applied Physics, 2014, 116, .	1.1	63
144	In-situ characterization of 2D materials for beyond CMOS applications. , 2014, , .		0

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145	Scaling of HfO <sub>2</sub> dielectric on CVD graphene. Applied Surface Science, 2014, 294, 95-99.	3.1	21
146	Defect-Dominated Doping and Contact Resistance in MoS <sub>2</sub> . ACS Nano, 2014, 8, 2880-2888.	7.3	690
147	Selectivity of metal oxide atomic layer deposition on hydrogen terminated and oxidized Si(001)-(2Å-1) surface. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2014, 32, .	0.6	40
148	Hole Contacts on Transition Metal Dichalcogenides: Interface Chemistry and Band Alignments. ACS Nano, 2014, 8, 6265-6272.	7.3	173
149	Effects of growth temperature and oxidant feeding time on residual C- and N-related impurities and Si diffusion behavior in atomic-layer-deposited La <sub>2</sub> O <sub>3</sub> thin films. Applied Surface Science, 2014, 292, 880-885.	3.1	10
150	Hole Selective MoO <sub>x</sub> Contact for Silicon Solar Cells. Nano Letters, 2014, 14, 967-971.	4.5	476
151	Realistic Metal-Graphene Contact Structures. ACS Nano, 2014, 8, 642-649.	7.3	93
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