

Michel Houssa

List of Publications by Year in descending order

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341
papers

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citations

44069

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91
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348
all docs

348
docs citations

348
times ranked

8408
citing authors

#	ARTICLE	IF	CITATIONS
1	On the elastic tensors of ultra-thin films: A study of ruthenium. Applied Surface Science, 2022, 592, 153194.	6.1	1
2	Origin of supertetragonality in BaTiO_3 . Physical Review Materials, 2022, 6, .	2.4	4
3	Doping-induced ferromagnetism in InSe and SnO monolayers. Journal of Computational Electronics, 2021, 20, 88-94.	2.5	8
4	Advanced DFT+NEGF Transport Techniques for Novel 2-D Material and Device Exploration Including $\text{HfS}_2/\text{WSe}_2$ van der Waals Heterojunction TFET and WTe_2/WS_2 Metal/Semiconductor Contact. IEEE Transactions on Electron Devices, 2021, 68, 5372-5379.	3.0	24
5	Measurement of direct and indirect bandgaps in synthetic ultrathin MoS_2 and WS_2 films from photoconductivity spectra. Journal of Applied Physics, 2021, 129, .	2.5	5
6	Quarter-filled Kane-Mele Hubbard model: Dirac half metals. Physical Review B, 2021, 103, .	3.2	7
7	Internal photoemission of electrons from 2D semiconductor/3D metal barrier structures. Journal Physics D: Applied Physics, 2021, 54, 295101.	2.8	1
8	Role of Stronger Interlayer van der Waals Coupling in Twin-Free Molecular Beam Epitaxy of 2D Chalcogenides. Advanced Materials Interfaces, 2021, 8, 2100438.	3.7	3
9	Efficient Direct Band-Gap Transition in Germanium by Three-Dimensional Strain. ACS Applied Materials & Interfaces, 2021, 13, 30941-30949.	8.0	14
10	Two dimensional V_2O_3 and its experimental feasibility as robust room-temperature magnetic Chern insulator. Npj 2D Materials and Applications, 2021, 5, .	7.9	7
11	Tuning the spintronic properties of graphene with atomically precise Au clusters. JPhys Materials, 2021, 4, 045005.	4.2	5
12	Structural and electronic rearrangement in ovonic switching $\text{Ge}_x\text{Se}_{1-x}(0,4 \leq x \leq 0,72)$ films. Solid-State Electronics, 2021, 186, 108084.	1.4	1
13	Graphene based Van der Waals contacts on MoS_2 field effect transistors. 2D Materials, 2021, 8, 015003.	4.4	15
14	Strain and ferroelectricity in wurtzite $\text{Sc}_x\text{Al}_{1-x}\text{N}$ materials. Applied Physics Letters, 2021, 119, .	3.3	11
15	Ab-initio based electron-phonon scattering for 2D materials within the NEGF framework. , 2021, , .		0
16	Electron-phonon scattering in cold-metal contacted two-dimensional semiconductor devices. , 2021, , .		3
17	Two-dimensional gallium and indium oxides from global structure searching: Ferromagnetism and half metallicity via hole doping. Journal of Applied Physics, 2020, 128, 034304.	2.5	12
18	Contact resistance at 2D metal/semiconductor heterostructures. Frontiers of Nanoscience, 2020, 17, 127-140.	0.6	0

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19	Impact of La ³⁺ OH bonds on the retention of Co/LaSiO CBRAM. Applied Physics Letters, 2020, 117, .	3.3	4
20	Band alignment at interfaces of two-dimensional materials: internal photoemission analysis. Journal of Physics Condensed Matter, 2020, 32, 413002.	1.8	10
21	Carrier-mediated ferromagnetism in two-dimensional PtS ₂ . RSC Advances, 2020, 10, 952-957.	3.6	7
22	Analysis of Transferred MoS ₂ Layers Grown by MOCVD: Evidence of Mo Vacancy Related Defect Formation. ECS Journal of Solid State Science and Technology, 2020, 9, 093001.	1.8	9
23	First-Principles Study of the Contact Resistance at 2D Metal/2D Semiconductor Heterojunctions. Applied Sciences (Switzerland), 2020, 10, 2731.	2.5	7
24	On the van der Waals Epitaxy of Homo-/Heterostructures of Transition Metal Dichalcogenides. ACS Applied Materials & Interfaces, 2020, 12, 27508-27517.	8.0	22
25	Fundamental limitation of van der Waals homoepitaxy by stacking fault formation in WSe ₂ . 2D Materials, 2020, 7, 025027.	4.4	11
26	Ferromagnetism and half-metallicity in two-dimensional $M\text{O}(\text{M}=\text{Mo}, \text{W})$ monolayers induced by hole doping. Physical Review Materials, 2020, 4, .	2.4	15
27	Energy Band Alignment of Few-Monolayer WS ₂ and WSe ₂ with SiO ₂ Using Internal Photoemission Spectroscopy. ECS Journal of Solid State Science and Technology, 2020, 9, 093009.	1.8	4
28	Key material parameters driving CBRAM device performances. Faraday Discussions, 2019, 213, 67-85.	3.2	12
29	Improving Post-Cycling Low Resistance State Retention in Resistive RAM With Combined Oxygen Vacancy and Copper Filament. IEEE Electron Device Letters, 2019, 40, 1072-1075.	3.9	4
30	Contact Resistance at MoS ₂ -Based 2D Metal/Semiconductor Lateral Heterojunctions. ACS Applied Nano Materials, 2019, 2, 760-766.	5.0	19
31	<i>(Invited)</i> Stoner Ferromagnetism in Two-Dimensional Materials. ECS Transactions, 2019, 92, 35-41.	0.5	2
32	A systematic study of various 2D materials in the light of defect formation and oxidation. Physical Chemistry Chemical Physics, 2019, 21, 1089-1099.	2.8	17
33	Evaluation of the effective work-function of monolayer graphene on silicon dioxide by internal photoemission spectroscopy. Thin Solid Films, 2019, 674, 39-43.	1.8	7
34	Energy Band Alignment of a Monolayer MoS ₂ with SiO ₂ and Al ₂ O ₃ Insulators from Internal Photoemission. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800616.	1.8	11
35	Determination of energy thresholds of electron excitations at semiconductor/insulator interfaces using trap-related displacement currents. Microelectronic Engineering, 2019, 215, 110992.	2.4	3
36	Contact resistance at graphene/MoS ₂ lateral heterostructures. Applied Physics Letters, 2019, 114, .	3.3	14

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37	Impacts of Ta Buffer Layer and Cu-Ge-Te Composition on the Reliability of GeSe-Based CBRAM. IEEE Transactions on Electron Devices, 2019, 66, 5133-5138.	3.0	4
38	Impact of MoS ₂ layer transfer on electrostatics of MoS ₂ /SiO ₂ interface. Nanotechnology, 2019, 30, 055702.	2.6	11
39	Silicene on non-metallic substrates: Recent theoretical and experimental advances. Nano Research, 2018, 11, 1169-1182.	10.4	31
40	Internal Photoemission Metrology of Inhomogeneous Interface Barriers. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700865.	1.8	14
41	Band alignment at interfaces of synthetic few-monolayer MoS ₂ with SiO ₂ from internal photoemission. APL Materials, 2018, 6, .	5.1	17
42	Synthesis of Silicene on Alternative Substrates. Nanoscience and Technology, 2018, , 197-209.	1.5	0
43	Hole-Doped 2D InSe for Spintronic Applications. ACS Applied Nano Materials, 2018, 1, 6656-6665.	5.0	41
44	Ferromagnetism in two-dimensional hole-doped SnO. AIP Advances, 2018, 8, .	1.3	22
45	Study of the Intrinsic Limitations of the Contact Resistance of Metal/Semiconductor Interfaces through Atomistic Simulations. ECS Journal of Solid State Science and Technology, 2018, 7, N73-N80.	1.8	12
46	On the Key Impact of Composition of Ge-Te and Ge-Se Electrolytes on CBRAM Properties. , 2018, , .		1
47	Predicting 2D silicon allotropes on SnS ₂ . Nano Research, 2017, 10, 1697-1709.	10.4	10
48	On the electrostatic control achieved in transistors based on multilayered MoS ₂ : A first-principles study. Journal of Applied Physics, 2017, 121, .	2.5	18
49	Buckled two-dimensional Xene sheets. Nature Materials, 2017, 16, 163-169.	27.5	641
50	Toward an Understanding of the Electric Field-Induced Electrostatic Doping in van der Waals Heterostructures: A First-Principles Study. ACS Applied Materials & Interfaces, 2017, 9, 7725-7734.	8.0	20
51	Point defects in MoS ₂ : Comparison between first-principles simulations and electron spin resonance experiments. Applied Surface Science, 2017, 416, 853-857.	6.1	15
52	Intrinsic point defects in buckled and puckered arsenene: a first-principles study. Physical Chemistry Chemical Physics, 2017, 19, 9862-9871.	2.8	38
53	(Invited) Internal Photoemission of Electrons from 2-Dimensional Semiconductors. ECS Transactions, 2017, 80, 191-201.	0.5	12
54	Hole-Doping Induced Ferromagnetism in Monolayer SnO: A First-Principles Study. ECS Transactions, 2017, 80, 339-345.	0.5	7

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73	Interaction Between Silicene and Non-metallic Surfaces. Springer Series in Materials Science, 2016, , 129-140.	0.6	1
74	Functional silicene and stanene nanoribbons compared to graphene: electronic structure and transport. 2D Materials, 2016, 3, 015001.	4.4	18
75	First-principles investigation of defects at GaAs/oxide interfaces. Materials Science in Semiconductor Processing, 2016, 42, 239-241.	4.0	1
76	Collapse of the low temperature insulating state in Cr-doped V2O3 thin films. Applied Physics Letters, 2015, 107, .	3.3	14
77	Interaction of silicene and germanene with non-metallic substrates. Journal of Physics: Conference Series, 2015, 574, 012015.	0.4	5
78	Silicene: a review of recent experimental and theoretical investigations. Journal of Physics Condensed Matter, 2015, 27, 253002.	1.8	180
79	Analysis of the Excellent Memory Disturb Characteristics of a Hourglass-Shaped Filament in Al ₂ O ₃ /Cu-Based CBRAM Devices. IEEE Transactions on Electron Devices, 2015, 62, 2007-2013.	3.0	26
80	Optimization of the write algorithm at low-current (10 ³ BC/A) in Cu/Al ₂ O ₃ -based conductive-bridge RAM. , 2015, , .		4
81	Operating-Current Dependence of the Cu-Mobility Requirements in Oxide-Based Conductive-Bridge RAM. IEEE Electron Device Letters, 2015, 36, 775-777.	3.9	30
82	Fast and Stable Sub-10uA Pulse Operation in W/SiO ₂ /Ta/Cu 90nm 1T1R CBRAM Devices. , 2015, , .		4
83	Band alignment at interfaces of few-monolayer MoS ₂ with SiO ₂ and HfO ₂ . Microelectronic Engineering, 2015, 147, 294-297.	2.4	31
84	(Invited) Spectroscopy of Deep Gap States in High-k Insulators. ECS Transactions, 2014, 64, 17-22.	0.5	16
85	Band alignment at interfaces of amorphous Al ₂ O ₃ with Ge _{1-x} Sn _x - and strained Ge-based channels. Applied Physics Letters, 2014, 104, 202107.	3.3	4
86	Engineering the electronic properties of silicene by tuning the composition of MoX ₂ and GaX (X = S,Se,Te) chalcogenide templates. 2D Materials, 2014, 1, 011010.	4.4	53
87	Origin of the deep reset and low variability of pulse-programmed WAl ₂ O ₃ /TiWCu CBRAM device. , 2014, , .		6
88	Current-voltage characteristics of armchair Sn nanoribbons. Physica Status Solidi - Rapid Research Letters, 2014, 8, 931-934.	2.4	12
89	First-principles study of strained 2D MoS ₂ . Physica E: Low-Dimensional Systems and Nanostructures, 2014, 56, 416-421.	2.7	119
90	Two-Dimensional Si Nanosheets with Local Hexagonal Structure on a MoS ₂ Surface. Advanced Materials, 2014, 26, 2096-2101.	21.0	311

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91	Modulation of electron barriers between TiN and oxide insulators (SiO_2 , Al_2O_3) using Ti interlayer. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 382-388.	1.8	4
92	(Invited) Interaction of Silicene and Germanene with Non-Metallic Substrates. <i>ECS Transactions</i> , 2014, 64, 111-119.	0.5	1
93	Influence of metal electrode stoichiometry on the electron barrier height at $\text{Cu}_x\text{Te}_{1-x}/\text{Al}_2\text{O}_3$ interfaces for CBRAM applications. <i>Microelectronic Engineering</i> , 2014, 120, 9-12.	2.4	3
94	Two-dimensional hexagonal tin: <i>ab initio</i> geometry, stability, electronic structure and functionalization. <i>2D Materials</i> , 2014, 1, 021004.	4.4	107
95	Origin of the current discretization in deep reset states of an $\text{Al}_2\text{O}_3/\text{Cu}$ -based conductive-bridging memory, and impact on state level and variability. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	33
96	Vibrational properties of epitaxial silicene layers on (111) Ag. <i>Applied Surface Science</i> , 2014, 291, 113-117.	6.1	49
97	Theoretical aspects of graphene-like group IV semiconductors. <i>Applied Surface Science</i> , 2014, 291, 98-103.	6.1	23
98	First-principles electronic functionalization of silicene and germanene by adatom chemisorption. <i>Applied Surface Science</i> , 2014, 291, 104-108.	6.1	69
99	Charge Properties of Paramagnetic Defects in Semiconductor/Oxide Structures. , 2014, , 229-252.		1
100	Nature of the filament formed in HfO_2 -based resistive random access memory. <i>Thin Solid Films</i> , 2013, 533, 15-18.	1.8	28
101	Getting through the Nature of Silicene: An sp^2 \rightarrow sp^3 Two-Dimensional Silicon Nanosheet. <i>Journal of Physical Chemistry C</i> , 2013, 117, 16719-16724.	3.1	163
102	(Invited) Theoretical Study of Silicene and Germanene. <i>ECS Transactions</i> , 2013, 53, 51-62.	0.5	9
103	A Thermally Stable and High-Performance 90-nm $\text{Al}_2\text{O}_3/\text{Cu}$ -Based 1T1R CBRAM Cell. <i>IEEE Transactions on Electron Devices</i> , 2013, 60, 3690-3695.	3.0	80
104	90nm $\text{WAlO}_3/\text{TiWCu}$ 1T1R CBRAM cell showing low-power, fast and disturb-free operation. , 2013, , .		18
105	Electron spin resonance analysis of sputtering-induced defects in advanced low- κ insulators ($\kappa=2.0$ – 2.5). <i>Microelectronic Engineering</i> , 2013, 109, 240-243.	2.4	0
106	Electron barrier height at $\text{Cu}_x\text{Te}_{1-x}/\text{Al}_2\text{O}_3$ interfaces of conducting bridge memory stacks. <i>Thin Solid Films</i> , 2013, 533, 34-37.	1.8	9
107	Control of metal/oxide electron barriers in CBRAM cells by low work-function liners. <i>Microelectronic Engineering</i> , 2013, 109, 156-159.	2.4	15
108	Vibrational properties of silicene and germanene. <i>Nano Research</i> , 2013, 6, 19-28.	10.4	144

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109	High-resolution electron spin resonance analysis of ion bombardment induced defects in advanced low- \bar{I}^2 insulators ($\bar{I}^2=2.0-2.5$). Applied Physics Letters, 2013, 102, .	3.3	15
110	An electric field tunable energy band gap at silicene/(0001) ZnS interfaces. Physical Chemistry Chemical Physics, 2013, 15, 3702.	2.8	86
111	Liquid-Phase Adsorption of Sulfur on Germanium: Reaction Mechanism and Atomic Geometry. Journal of Physical Chemistry C, 2013, 117, 7451-7458.	3.1	6
112	(Invited) Optimization of WAl ₂ O ₃ Cu(-Te) Material Stack for High-Performance Conductive-Bridging Memory Cells. ECS Transactions, 2013, 58, 175-180.	0.5	1
113	(Invited) Electron Band Alignment at Ge/Oxide and AlIII-BV/Oxide Interfaces from Internal Photoemission Experiments. ECS Transactions, 2013, 58, 311-316.	0.5	2
114	Oxidation and Sulfidation of Germanium Surfaces: A Comparative Atomic Level Study of Different Passivation Schemes. ECS Transactions, 2013, 50, 569-579.	0.5	2
115	Interaction of Germanene with (0001)ZnSe Surfaces: A Theoretical Study. ECS Transactions, 2013, 58, 209-215.	0.5	1
116	(Invited) Structural and Chemical Stabilization of the Epitaxial Silicene. ECS Transactions, 2013, 58, 217-227.	0.5	5
117	High Mobility Channels. Springer Series in Advanced Microelectronics, 2013, , 425-457.	0.3	1
118	Electron band alignment at the interface of (100)InSb with atomic-layer deposited Al ₂ O ₃ . Applied Physics Letters, 2012, 101, 082114.	3.3	11
119	Noninvasive embedding of single Co atoms in Ge(111)2 $\hat{\epsilon}$ surfaces. Physical Review B, 2012, 85, . $\text{xmlns:mml="http://www.w3.org/1998/Math/MathML"}$	3.2	13
120	Charge instability of atomic-layer deposited TaSiOxinsulators on Si, InP, and In _{0.53} Ga _{0.47} As. Applied Physics Letters, 2012, 100, 202104.	3.3	6
121	Oxidation of the GaAs(001) surface: Insights from first-principles calculations. Physical Review B, 2012, 85, .	3.2	18
122	Challenges for introducing Ge and III/V devices into CMOS technologies. , 2012, , .		4
123	Internal Photoemission at Interaces of ALD TaiOxInsulating Layers Deposited on Si, InP and In _{0.53} Ga _{0.47} As. IOP Conference Series: Materials Science and Engineering, 2012, 41, 012019.	0.6	1
124	Interface barriers at the interfaces of polar GaAs(111) faces with Al ₂ O ₃ . Applied Physics Letters, 2012, 100, .	3.3	9
125	Semiconducting-like filament formation in TiN/HfO ₂ /TiN resistive switching random access memories. Applied Physics Letters, 2012, 100, .	3.3	43
126	Strain-induced semiconductor to metal transition in the two-dimensional honeycomb structure of MoS ₂ . Nano Research, 2012, 5, 43-48.	10.4	620

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127	Transitivity of band offsets between semiconductor heterojunctions and oxide insulators. Applied Physics Letters, 2011, 99, .	3.3	20
128	Advancing CMOS beyond the Si roadmap with Ge and III/V devices. , 2011, , .		43
129	Inelastic electron tunneling spectroscopy of HfO ₂ gate stacks: A study based on first-principles modeling. Applied Physics Letters, 2011, 99, 132101.	3.3	0
130	Electronic properties of hydrogenated silicene and germanene. Applied Physics Letters, 2011, 98, .	3.3	399
131	Universal stress-defect correlation at (100)semiconductor/oxide interfaces. Applied Physics Letters, 2011, 98, 141901.	3.3	10
132	Electronic Properties of Silicene: Insights from First-Principles Modeling. Journal of the Electrochemical Society, 2011, 158, H107.	2.9	42
133	Band Alignment at Interfaces of Oxide Insulators with Semiconductors. Integrated Ferroelectrics, 2011, 125, 53-60.	0.7	5
134	Experimental and theoretical investigation of defects at (100) Si _{1-x} Ge _x /oxide interfaces. Microelectronic Engineering, 2011, 88, 383-387.	2.4	3
135	First-principles study of Ge dangling bonds in GeO ₂ and correlation with electron spin resonance at Ge/GeO ₂ interfaces. Applied Physics Letters, 2011, 99, .	3.3	11
136	Influence of Al ₂ O ₃ crystallization on band offsets at interfaces with Si and TiN _x . Applied Physics Letters, 2011, 99, 072103.	3.3	50
137	Structural and vibrational properties of amorphous GeO ₂ from first-principles. Applied Physics Letters, 2011, 98, .	3.3	6
138	Electronic structure of NiO layers grown on Al ₂ O ₃ and SiO ₂ using metallo-organic chemical vapour deposition. Journal of Applied Physics, 2011, 110, .	2.5	4
139	Self-Affine Surface Roughness of Chemically and Thermally Cleaned Ge(100) Surfaces. Journal of the Electrochemical Society, 2011, 158, H1090.	2.9	5
140	Theoretical Study of Ge Dangling Bonds in GeO ₂ and Correlation with ESR Results at Ge/GeO ₂ Interfaces. ECS Transactions, 2011, 41, 39-45.	0.5	1
141	Electron States at Interfaces of Semiconductors and Metals with Insulating Films. ECS Transactions, 2011, 34, 467-472.	0.5	1
142	Shaping the future of nanoelectronics beyond the Si roadmap with new materials and devices. Proceedings of SPIE, 2010, , .	0.8	2
143	Electron energy band alignment at the NiO/SiO ₂ interface. Applied Physics Letters, 2010, 96, .	3.3	7
144	High FET Performance for a Future CMOS GeO_2 -Based Technology. IEEE Electron Device Letters, 2010, 31, 402-404.	3.9	50

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145	Electronic Properties of Silicene: Insights from First-Principles Modelling. ECS Transactions, 2010, 33, 185-193.	0.5	7
146	Can silicon behave like graphene? A first-principles study. Applied Physics Letters, 2010, 97, .	3.3	208
147	Electronic properties of two-dimensional hexagonal germanium. Applied Physics Letters, 2010, 96, .	3.3	114
148	Energy band-alignment of a multimetal-layer gated metal-oxide-semiconductor structure. Applied Physics Letters, 2009, 95, .	3.3	6
149	A theoretical study of the initial oxidation of the GaAs(001)- $\sqrt{2} \times \sqrt{2}$ surface. Applied Physics Letters, 2009, 95, .	3.3	31
150	Ge and III/V devices for advanced CMOS. , 2009, , .		3
151	Positive and negative bias temperature instability in LaO_3 and AlO_3 capped high-k MOSFETs. , 2009, , .		4
152	Extrinsic interface formation of HfO ₂ and Al ₂ O ₃ •GeO _x gate stacks on Ge (100) substrates. Journal of Applied Physics, 2009, 106, .	2.5	18
153	Progress Towards Passivation of High-Mobility Channels. ECS Transactions, 2009, 25, 249-263.	0.5	0
154	Molecular Beam Epitaxy study of a common a-GeO ₂ interfacial passivation layer for Ge- and GaAs-based MOS heterostructures. Materials Research Society Symposia Proceedings, 2009, 1155, 1.	0.1	2
155	High Mobility Channel Materials and Novel Devices for Scaling of Nanoelectronics beyond the Si Roadmap. Materials Research Society Symposia Proceedings, 2009, 1194, 49.	0.1	0
156	Impact of nitridation on recoverable and permanent negative bias temperature instability degradation in high-k/metal-gate p-type metal oxide semiconductor field effect transistors. Journal of Vacuum Science & Technology B, 2009, 27, 463.	1.3	3
157	First-principles investigation of the electron spin resonance parameters of germanium interfacial dangling bond centers. Applied Physics Letters, 2009, 94, 184103.	3.3	7
158	Quantum Simulation of C-V and I-V Characteristics in Ge and III-V Materials/High- κ MOS Devices. Materials Research Society Symposia Proceedings, 2009, 1194, 15.	0.1	0
159	High- κ Dielectrics and Interface Passivation for Ge and III/V Devices on Silicon for Advanced CMOS. ECS Transactions, 2009, 25, 51-65.	0.5	1
160	Molecular beam epitaxy passivation studies of Ge and III-V semiconductors for advanced CMOS. Microelectronic Engineering, 2009, 86, 1592-1595.	2.4	17
161	Adsorption of molecular oxygen on the reconstructed $\sqrt{2} \times \sqrt{2}$ -GaAs(001) surface: A first-principles study. Surface Science, 2009, 603, 203-208.	1.9	33
162	A first-principles study of the structural and electronic properties of III-V/thermal oxide interfaces. Microelectronic Engineering, 2009, 86, 1747-1750.	2.4	18

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163	Investigation of capacitance-voltage characteristics in Ge/high- ϵ MOS devices. Journal of Non-Crystalline Solids, 2009, 355, 1171-1175.	3.1	15
164	Electron transport through high- ϵ dielectric barriers: A non-equilibrium Green's function (NEGF) study. Journal of Non-Crystalline Solids, 2009, 355, 1180-1184.	3.1	6
165	Surface Defects and Passivation of Ge and III-V Interfaces. MRS Bulletin, 2009, 34, 504-513.	3.5	82
166	Electronic properties of Ge dangling bond centers at Si $_{1-x}$ Ge $_x$ /SiO $_2$ interfaces. Applied Physics Letters, 2009, 95, 222106.	3.3	17
167	First-principles study of the electronic properties of Ge dangling bonds at (100)Si $_{1-x}$ Ge $_x$ /SiO $_2$ interfaces. Applied Physics Letters, 2009, 95, .	3.3	10
168	Interface control of high-k gate dielectrics on Ge. Applied Surface Science, 2008, 254, 6094-6099.	6.1	95
169	Electronic properties of (100)Ge/Ge(Hf)O $_2$ interfaces: A first-principles study. Surface Science, 2008, 602, L25-L28.	1.9	38
170	Influence of passivating interlayer on Ge/HfO $_2$ and Ge/Al $_2$ O $_3$ interface band diagrams. Materials Science in Semiconductor Processing, 2008, 11, 230-235.	4.0	7
171	Ge dangling bonds at the (100)Ge/GeO $_2$ interface and the viscoelastic properties of GeO $_2$. Applied Physics Letters, 2008, 93, .	3.3	103
172	Electronic structure of GeO $_2$ -passivated interfaces of (100)Ge with Al $_2$ O $_3$ and HfO $_2$. Applied Physics Letters, 2008, 92, 022109.	3.3	62
173	Ge 3d core-level shifts at (100)Ge $_x$ Ge(Hf)O $_2$ interfaces: A first-principles investigation. Applied Physics Letters, 2008, 92, .	3.3	37
174	Negative bias temperature instability on Si-passivated Ge-interface. , 2008, , .		4
175	Alternative channel materials for MOS devices. , 2008, , .		2
176	Passivation of Ge(100)-GeO $_2$ -high- ϵ Gate Stacks Using Thermal Oxide Treatments. Journal of the Electrochemical Society, 2008, 155, G33.	2.9	112
177	First-principles study of the structural and electronic properties of (100)Ge $_x$ Ge(M)O $_2$ interfaces (M=Al, Tj ETQq1_1_0.784314 rgBT / O	3.3	68
178	Reliability study of La $_2$ O $_3$ capped HfSiON high-permittivity n-type metal-oxide-semiconductor field-effect transistor devices with tantalum-rich electrodes. Journal of Applied Physics, 2008, 104, 044512.	2.5	11
179	Germanium MOSFET Devices: Advances in Materials Understanding, Process Development, and Electrical Performance. Journal of the Electrochemical Society, 2008, 155, H552.	2.9	230
180	Interface Properties Improvement of Ge/Al $_2$ O $_3$ and Ge/GeO $_2$ /Al $_2$ O $_3$ Gate Stacks using Molecular Beam Deposition. ECS Transactions, 2008, 16, 411-422.	0.5	12

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181	Atomic Layer Deposition of High-k Dielectric Layers on Ge and III-V MOS Channels. ECS Transactions, 2008, 16, 671-685.	0.5	9
182	Atomic Layer Deposition of Hafnium Based Gate Dielectric Layers for CMOS Applications. ECS Transactions, 2007, 11, 227-241.	0.5	3
183	Materials and electrical characterization of molecular beam deposited CeO ₂ and CeO ₂ /HfO ₂ bilayers on germanium. Journal of Applied Physics, 2007, 102, .	2.5	48
184	Threshold voltage shifts in Si passivated (100)Ge p-channel field effect transistors: Insights from first-principles modeling. Applied Physics Letters, 2007, 91, 023506.	3.3	23
185	Effective electrical passivation of Ge(100) for high-k gate dielectric layers using germanium oxide. Applied Physics Letters, 2007, 91, .	3.3	254
186	Postdeposition-Anneal Effect on Negative Bias Temperature Instability in HfSiON Gate Stacks. IEEE Transactions on Device and Materials Reliability, 2007, 7, 146-151.	2.0	10
187	Electrical Passivation of the (100)Ge Surface by Its Thermal Oxide. ECS Transactions, 2007, 11, 451-459.	0.5	6
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