

# Yves Chabal

## List of Publications by Year in descending order

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425  
papers

33,616  
citations

3449

93  
h-index

5481

169  
g-index

435  
all docs

435  
docs citations

435  
times ranked

35705  
citing authors

#	ARTICLE	IF	CITATIONS
1	Yttrium Oxide-Catalyzed Formation of Electrically Conductive Carbon for Supercapacitors. ACS Applied Energy Materials, 2021, 4, 12499-12507.	2.5	11
2	Rapid desolvation-triggered domino lattice rearrangement in a metal-organic framework. Nature Chemistry, 2020, 12, 90-97.	6.6	93
3	Reorganization of a photosensitive carbo-benzene layer in a triptych nanocatalyst with enhancement of the photocatalytic hydrogen production from water. International Journal of Hydrogen Energy, 2020, 45, 24765-24778.	3.8	2
4	Role of Surface Oxygen Vacancies in Intermediate Formation on Mullite-type Oxides upon NO Adsorption. Journal of Physical Chemistry C, 2020, 124, 15913-15919.	1.5	9
5	Adsorption Sites, Bonding Configurations, Reactions and Mass Transport Surface. Springer Handbooks, 2020, , 853-902.	0.3	0
6	Nanoimaging of Organic Charge Retention Effects: Implications for Nonvolatile Memory, Neuromorphic Computing, and High Dielectric Breakdown Devices. ACS Applied Nano Materials, 2019, 2, 4711-4716.	2.4	4
7	Integrated Experimental-Theoretical Approach To Determine Reliable Molecular Reaction Mechanisms on Transition-Metal Oxide Surfaces. ACS Applied Materials & Interfaces, 2019, 11, 30460-30469.	4.0	9
8	High stability of ultra-small and isolated gold nanoparticles in metal-organic framework materials. Journal of Materials Chemistry A, 2019, 7, 17536-17546.	5.2	41
9	A triptych photocatalyst based on the Co-Integration of Ag nanoparticles and carbo-benzene dye into a TiO <sub>2</sub> thin film. International Journal of Hydrogen Energy, 2019, 44, 26347-26360.	3.8	9
10	Structure-Driven Photoluminescence Enhancement in a Zn-Based Metal-Organic Framework. Chemistry of Materials, 2019, 31, 7933-7940.	3.2	21
11	Quenching of photoluminescence in a Zn-MOF sensor by nitroaromatic molecules. Journal of Materials Chemistry C, 2019, 7, 2625-2632.	2.7	54
12	Stable and Active Oxidation Catalysis by Cooperative Lattice Oxygen Redox on SmMn <sub>2</sub> O <sub>5</sub> Mullite Surface. Journal of the American Chemical Society, 2019, 141, 10722-10728.	6.6	64
13	Superior low-temperature NO catalytic performance of PrMn <sub>2</sub> O <sub>5</sub> over SmMn <sub>2</sub> O <sub>5</sub> mullite-type catalysts. Catalysis Science and Technology, 2019, 9, 2758-2766.	2.1	16
14	Reactivity of Atomic Layer Deposition Precursors with OH/H <sub>2</sub> O-Containing Metal Organic Framework Materials. Chemistry of Materials, 2019, 31, 2286-2295.	3.2	16
15	Biphenyl-bridged wrinkled mesoporous silica nanoparticles for radioactive iodine capture. MRS Advances, 2019, 4, 435-439.	0.5	0
16	Luminescent Metal-Organic Framework for Lithium Harvesting Applications. ACS Sustainable Chemistry and Engineering, 2019, 7, 6561-6568.	3.2	21
17	Critical Role of Mullite-type Oxides <sup>TM</sup> Surface Chemistry on Catalytic NO Oxidation Performance. Journal of Physical Chemistry C, 2019, 123, 5385-5393.	1.5	15
18	Mechanistic study of the atomic layer deposition of scandium oxide films using Sc(MeCp) <sub>2</sub> (Me <sub>2</sub> pz) and ozone. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2019, 37, .	0.9	4

#	ARTICLE	IF	CITATIONS
19	Nanocast carbon microsphere flowers from a lanthanum-based template. <i>Materials Letters</i> , 2019, 234, 224-227.	1.3	7
20	Understanding Thermal Evolution and Monolayer Doping of Sulfur-Passivated GaAs(100). <i>Journal of Physical Chemistry C</i> , 2018, 122, 8414-8422.	1.5	2
21	In Situ Infrared Absorption Study of Plasma-Enhanced Atomic Layer Deposition of Silicon Nitride. <i>Langmuir</i> , 2018, 34, 2619-2629.	1.6	9
22	Selective Atomic Layer Deposition Mechanism for Titanium Dioxide Films with (EtCp)Ti(NMe <sub>2</sub> ) <sub>3</sub> : Ozone versus Water. <i>Chemistry of Materials</i> , 2018, 30, 970-981.	3.2	19
23	Creating Hierarchical Pores by Controlled Linker Thermolysis in Multivariate Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2018, 140, 2363-2372.	6.6	310
24	Controlled Growth and Grafting of High-Density Au Nanoparticles on Zinc Oxide Thin Films by Photo-Deposition. <i>Langmuir</i> , 2018, 34, 1932-1940.	1.6	20
25	Role of Hydrogen Bonding on Transport of Coadsorbed Gases in Metal-Organic Frameworks Materials. <i>Journal of the American Chemical Society</i> , 2018, 140, 856-859.	6.6	26
26	Topologically guided tuning of Zr-MOF pore structures for highly selective separation of C6 alkane isomers. <i>Nature Communications</i> , 2018, 9, 1745.	5.8	251
27	Structure and Chemical Characterization at the Atomic Level of Reactions in Al/CuO Multilayers. <i>ACS Applied Energy Materials</i> , 2018, 1, 1762-1770.	2.5	48
28	Superior catalytic performance of Mn-Mullite over Mn-Perovskite for NO oxidation. <i>Catalysis Today</i> , 2018, 310, 195-201.	2.2	52
29	Gold Nanoparticles on Functionalized Silicon Substrate under Coulomb Blockade Regime: An Experimental and Theoretical Investigation. <i>Journal of Physical Chemistry B</i> , 2018, 122, 897-903.	1.2	9
30	Engineering Multilayered Nanocrystal Solids with Enhanced Optical Properties Using Metal Oxides for Photonic Applications. <i>ACS Applied Nano Materials</i> , 2018, 1, 6782-6789.	2.4	13
31	Selective Extraction of Thorium from Rare Earth Elements Using Wrinkled Mesoporous Carbon. <i>Journal of the American Chemical Society</i> , 2018, 140, 14735-14739.	6.6	70
32	Simultaneous Trapping of C <sub>2</sub> H <sub>2</sub> and C <sub>2</sub> H <sub>6</sub> from a Ternary Mixture of C <sub>2</sub> H <sub>2</sub> /C <sub>2</sub> H <sub>4</sub> /C <sub>2</sub> H <sub>6</sub> in a Robust Metal-Organic Framework for the Purification of C <sub>2</sub> H <sub>4</sub> . <i>Angewandte Chemie International Edition</i> , 2018, 57, 16067-16071.	7.2	223
33	Simultaneous Trapping of C <sub>2</sub> H <sub>2</sub> and C <sub>2</sub> H <sub>6</sub> from a Ternary Mixture of C <sub>2</sub> H <sub>2</sub> /C <sub>2</sub> H <sub>4</sub> /C <sub>2</sub> H <sub>6</sub> in a Robust Metal-Organic Framework for the Purification of C <sub>2</sub> H <sub>4</sub> . <i>Angewandte Chemie</i> , 2018, 130, 16299-16303.	1.6	71
34	Vapor-Phase Cleaning and Corrosion Inhibition of Copper Films by Ethanol and Heterocyclic Amines. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 38610-38620.	4.0	19
35	Water Dissociation and Further Hydroxylation of Perfect and Defective Polar ZnO Model Surfaces. <i>Journal of Physical Chemistry C</i> , 2018, 122, 21861-21873.	1.5	15
36	Selective Growth of Interface Layers from Reactions of Sc(MeCp) <sub>2</sub> (Me <sub>2</sub> pz) with Oxide Substrates. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 32818-32827.	4.0	4

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37	Modulation of Water Vapor Sorption by a Fourth-Generation Metal-Organic Material with a Rigid Framework and Self-Switching Pores. <i>Journal of the American Chemical Society</i> , 2018, 140, 12545-12552.	6.6	42
38	Thermal Atomic Layer Etching of Silica and Alumina Thin Films Using Trimethylaluminum with Hydrogen Fluoride or Fluoroform. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 31784-31794.	4.0	20
39	Al Interaction with ZnO Surfaces. <i>Journal of Physical Chemistry C</i> , 2018, 122, 17856-17864.	1.5	7
40	Surface Chemical Composition and Morphology. , 2018, , 505-577.		1
41	Controlling Chemical Reactions in Confined Environments: Water Dissociation in MOF-74. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 270.	1.3	10
42	Chemical Modification Mechanisms in Hybrid Hafnium Oxo-methacrylate Nanocluster Photoresists for Extreme Ultraviolet Patterning. <i>Chemistry of Materials</i> , 2018, 30, 6192-6206.	3.2	31
43	Cobalt and iron segregation and nitride formation from nitrogen plasma treatment of CoFeB surfaces. <i>Journal of Chemical Physics</i> , 2017, 146, 052805.	1.2	6
44	Order of magnitude enhancement of monolayer MoS <sub>2</sub> photoluminescence due to near-field energy influx from nanocrystal films. <i>Scientific Reports</i> , 2017, 7, 41967.	1.6	15
45	Oxidative Dehydrogenation of Cyclohexane and Cyclohexene over Y-doped CeO <sub>2</sub> Nanorods. <i>Catalysis Letters</i> , 2017, 147, 738-744.	1.4	10
46	Novel binder-free electrode materials for supercapacitors utilizing high surface area carbon nanofibers derived from immiscible polymer blends of PBI/6FDA-DAM:DABA. <i>RSC Advances</i> , 2017, 7, 20947-20959.	1.7	31
47	Interaction of Acid Gases SO <sub>2</sub> and NO <sub>2</sub> with Coordinatively Unsaturated Metal Organic Frameworks: M-MOF-74 (M = Zn, Mg, Ni, Co). <i>Chemistry of Materials</i> , 2017, 29, 4227-4235.	3.2	99
48	Energy transfer from colloidal nanocrystals to strongly absorbing perovskites. <i>Nanoscale</i> , 2017, 9, 8695-8702.	2.8	6
49	Basic Mechanisms of Al Interaction with the ZnO Surface. <i>Journal of Physical Chemistry C</i> , 2017, 121, 12780-12788.	1.5	8
50	Reaction Mechanisms of the Atomic Layer Deposition of Tin Oxide Thin Films Using Tributyltin Ethoxide and Ozone. <i>Langmuir</i> , 2017, 33, 5998-6004.	1.6	4
51	Substrate selectivity in the low temperature atomic layer deposition of cobalt metal films from bis(1,4-di-tert-butyl-1,3-diazadienyl)cobalt and formic acid. <i>Journal of Chemical Physics</i> , 2017, 146, 052813.	1.2	35
52	Nonuniform Composition Profiles in Amorphous Multimetal Oxide Thin Films Deposited from Aqueous Solution. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 37476-37483.	4.0	7
53	DNA Grafting and Arrangement on Oxide Surfaces for Self-Assembly of Al and CuO Nanoparticles. <i>Langmuir</i> , 2017, 33, 12193-12203.	1.6	23
54	Performance Enhancement via Incorporation of ZnO Nanolayers in Energetic Al/CuO Multilayers. <i>Langmuir</i> , 2017, 33, 11086-11093.	1.6	19

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55	Interfacial charge distributions in carbon-supported palladium catalysts. Nature Communications, 2017, 8, 340.	5.8	145
56	Capture of organic iodides from nuclear waste by metal-organic framework-based molecular traps. Nature Communications, 2017, 8, 485.	5.8	171
57	Giant PbSe/CdSe/CdSe Quantum Dots: Crystal-Structure-Defined Ultrastable Near-Infrared Photoluminescence from Single Nanocrystals. Journal of the American Chemical Society, 2017, 139, 11081-11088.	6.6	48
58	Biexciton and trion energy transfer from CdSe/CdS giant nanocrystals to Si substrates. Nanoscale, 2017, 9, 19398-19407.	2.8	2
59	Role of Trimethylaluminum in Low Temperature Atomic Layer Deposition of Silicon Nitride. Chemistry of Materials, 2017, 29, 6022-6029.	3.2	4
60	Low-index, smooth Al <sub>2</sub> O <sub>3</sub> films by aqueous solution process. Optical Materials Express, 2017, 7, 273.	1.6	18
61	Controlled Deposition and Spectroscopic Signatures of Ordered Multilayer Nanocrystal Assemblies for Optoelectronic Applications. Advanced Optical Materials, 2016, 4, 378-383.	3.6	5
62	Initial nitride formation during plasma-nitridation of cobalt surfaces. Applied Physics Letters, 2016, 109, .	1.5	8
63	Trapping gases in metal-organic frameworks with a selective surface molecular barrier layer. Nature Communications, 2016, 7, 13871.	5.8	60
64	Atomic Mechanism of Arsenic Monolayer Doping on oxide-free Silicon(111). MRS Advances, 2016, 1, 2345-2353.	0.5	1
65	Ammonia modification of oxide-free Si(111) surfaces. Surface Science, 2016, 650, 285-294.	0.8	10
66	Single Charge Electronics with Gold Nanoparticles and Organic Monolayers. Materials Research Society Symposia Proceedings, 2016, 1817, 1.	0.1	3
67	Atomic Layer Deposition of Silicon Dioxide Using Aminosilanes Di- <i>sec</i> -butylaminosilane and Bis( <i>tert</i> -butylamino)silane with Ozone. Journal of Physical Chemistry C, 2016, 120, 10927-10935.	1.5	35
68	Self-Organized Al <sub>2</sub> Cu Nanocrystals at the Interface of Aluminum-Based Reactive Nanolaminates to Lower Reaction Onset Temperature. ACS Applied Materials & Interfaces, 2016, 8, 13104-13113.	4.0	22
69	General Strategy for the Design of DNA Coding Sequences Applied to Nanoparticle Assembly. Langmuir, 2016, 32, 9676-9686.	1.6	12
70	Aqueous process to limit hydration of thin-film inorganic oxides. Solid State Sciences, 2016, 61, 106-110.	1.5	6
71	Chemistry in confined spaces: reactivity of the Zn-MOF-74 channels. Journal of Materials Chemistry A, 2016, 4, 13176-13182.	5.2	7
72	Broadband transient absorption study of photoexcitations in lead halide perovskites: Towards a multiband picture. Physical Review B, 2016, 93, .	1.1	47

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73	Highly Efficient Luminescent Metal-Organic Framework for the Simultaneous Detection and Removal of Heavy Metals from Water. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 30294-30303.	4.0	320
74	Role of Initial Precursor Chemisorption on Incubation Delay for Molybdenum Oxide Atomic Layer Deposition. <i>Chemistry of Materials</i> , 2016, 28, 8591-8597.	3.2	18
75	Toward Selective Ultra-High-Vacuum Atomic Layer Deposition of Metal Oxides on Si(100). <i>Journal of Physical Chemistry C</i> , 2016, 120, 24213-24223.	1.5	16
76	Rational design of common transition metal-nitrogen-carbon catalysts for oxygen reduction reaction in fuel cells. <i>Nano Energy</i> , 2016, 30, 443-449.	8.2	114
77	Cluster assisted water dissociation mechanism in MOF-74 and controlling it using helium. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11524-11530.	5.2	10
78	Influence of growth temperature on bulk and surface defects in hybrid lead halide perovskite films. <i>Nanoscale</i> , 2016, 8, 1627-1634.	2.8	69
79	Surface etching, chemical modification and characterization of silicon nitride and silicon oxide selective functionalization of Si <sub>3</sub> N <sub>4</sub> and SiO <sub>2</sub> . <i>Journal of Physics Condensed Matter</i> , 2016, 28, 094014.	0.7	31
80	Mechanism of Arsenic Monolayer Doping of Oxide-Free Si(111). <i>Chemistry of Materials</i> , 2016, 28, 1975-1979.	3.2	17
81	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
82	Understanding and controlling water stability of MOF-74. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5176-5183.	5.2	155
83	Static and dynamic electronic characterization of organic monolayers grafted on a silicon surface. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 3675-3684.	1.3	17
84	Atomically Traceable Nanostructure Fabrication. <i>Journal of Visualized Experiments</i> , 2015, , e52900.	0.2	2
85	Frustrated Etching during H/Si(111) Methoxylation Produces Fissured Fluorinated Surfaces, Whereas Direct Fluorination Preserves the Atomically Flat Morphology. <i>Journal of Physical Chemistry C</i> , 2015, 119, 26029-26037.	1.5	6
86	Controlling the reproducibility of Coulomb blockade phenomena for gold nanoparticles on an organic monolayer/silicon system. <i>Nanotechnology</i> , 2015, 26, 065301.	1.3	8
87	Competitive Coadsorption of CO <sub>2</sub> with H <sub>2</sub> O, NH <sub>3</sub> , SO <sub>2</sub> , NO, NO <sub>2</sub> , N <sub>2</sub> , O <sub>2</sub> , and CH <sub>4</sub> in M-MOF-74 (M = Mg, Co, Ni): The Role of Hydrogen Bonding. <i>Chemistry of Materials</i> , 2015, 27, 2203-2217.	3.2	158
88	Silicon Surface Modification and Characterization for Emergent Photovoltaic Applications Based on Energy Transfer. <i>Chemical Reviews</i> , 2015, 115, 12764-12796.	23.0	81
89	Nanopatterning on H-Terminated Si(111) Explained as Dynamic Equilibrium of the Chemical Reaction with Methanol. <i>Journal of Physical Chemistry C</i> , 2015, 119, 16947-16953.	1.5	10
90	Enhancing the Reactivity of Al/CuO Nanolaminates by Cu Incorporation at the Interfaces. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 11713-11718.	4.0	68

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91	Atomic Layer Deposition of Cobalt Silicide Thin Films Studied by in Situ Infrared Spectroscopy. Chemistry of Materials, 2015, 27, 4943-4949.	3.2	18
92	Hybrid light sensor based on ultrathin Si nanomembranes sensitized with CdSe/ZnS colloidal nanocrystal quantum dots. Nanoscale, 2015, 7, 8524-8530.	2.8	13
93	Ethylenediamine Grafting on Oxide-Free H-, 1/3 ML F-, and Cl-Terminated Si(111) Surfaces. Chemistry of Materials, 2015, 27, 6268-6281.	3.2	26
94	Role of Alumina Coatings for Selective and Controlled Bonding of DNA on Technologically Relevant Oxide Surfaces. Journal of Physical Chemistry C, 2015, 119, 23527-23543.	1.5	17
95	Low-Temperature Synthesis of a TiO <sub>2</sub> /Si Heterojunction. Journal of the American Chemical Society, 2015, 137, 14842-14845.	6.6	70
96	Sensing the Charge State of Single Gold Nanoparticles via Work Function Measurements. Nano Letters, 2015, 15, 51-55.	4.5	174
97	Structural, elastic, thermal, and electronic responses of small-molecule-loaded metal-organic framework materials. Journal of Materials Chemistry A, 2015, 3, 986-995.	5.2	42
98	Water interactions in metal organic frameworks. CrystEngComm, 2015, 17, 247-260.	1.3	148
99	Morphology and chemical termination of HF-etched Si <sub>3</sub> N <sub>4</sub> surfaces. Applied Physics Letters, 2014, 105, .	1.5	10
100	Lowering the density of electronic defects on organic-functionalized Si(100) surfaces. Applied Physics Letters, 2014, 104, .	1.5	16
101	Efficient Directed Energy Transfer through Size-Gradient Nanocrystal Layers into Silicon Substrates. Advanced Functional Materials, 2014, 24, 5002-5010.	7.8	13
102	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
103	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
104	Microspotting: Film Structure of Epitaxial Graphene Oxide on SiC: Insight on the Relationship Between Interlayer Spacing, Water Content, and Intralayer Structure (Adv. Mater. Interfaces 3/2014). Advanced Materials Interfaces, 2014, 1, n/a-n/a.	1.9	0
105	Chemical bonding and stability of multilayer graphene oxide layers. , 2014, , .		0
106	Film Structure of Epitaxial Graphene Oxide on SiC: Insight on the Relationship Between Interlayer Spacing, Water Content, and Intralayer Structure. Advanced Materials Interfaces, 2014, 1, 1300106.	1.9	18
107	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
108	Study of van der Waals bonding and interactions in metal organic framework materials. Journal of Physics Condensed Matter, 2014, 26, 133002.	0.7	34

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109	Synthesis, Characterization, and Photocatalytic Activity of Y-Doped CeO <sub>2</sub> Nanorods. ACS Catalysis, 2014, 4, 577-584.	5.5	301
110	Realistic Metal-Graphene Contact Structures. ACS Nano, 2014, 8, 642-649.	7.3	93
111	Elementary Surface Chemistry during CuO/Al Nanolaminate-Thermite Synthesis: Copper and Oxygen Deposition on Aluminum (111) Surfaces. ACS Applied Materials & Interfaces, 2014, 6, 15086-15097.	4.0	47
112	Adsorbate Interactions in Metal Organic Frameworks Studied by Vibrational Spectroscopy. Comments on Inorganic Chemistry, 2014, 34, 78-102.	3.0	10
113	Water Reaction Mechanism in Metal Organic Frameworks with Coordinatively Unsaturated Metal Ions: MOF-74. Chemistry of Materials, 2014, 26, 6886-6895.	3.2	149
114	Effect of metal/bulk-heterojunction interfacial properties on organic photovoltaic device performance. Journal of Materials Chemistry A, 2014, 2, 15288.	5.2	11
115	Graphitic carbon nitride nano-emitters on silicon: a photoelectrochemical heterojunction composed of earth-abundant materials for enhanced evolution of hydrogen. Journal of Materials Chemistry A, 2014, 2, 12697-12702.	5.2	15
116	Effective sensing of RDX via instant and selective detection of ketone vapors. Chemical Science, 2014, 5, 4873-4877.	3.7	112
117	Silicon Interfacial Passivation Layer Chemistry for High-k/InP Interfaces. ACS Applied Materials & Interfaces, 2014, 6, 7340-7345.	4.0	14
118	Digermene Deposition on Si(100) and Ge(100): from Adsorption Mechanism to Epitaxial Growth. Journal of Physical Chemistry C, 2014, 118, 482-493.	1.5	6
119	Role of Interfacial Aluminum Silicate and Silicon as Barrier Layers for Atomic Layer Deposition of Al <sub>2</sub> O <sub>3</sub> Films on Chemically Cleaned InP(100) Surfaces. Journal of Physical Chemistry C, 2014, 118, 29164-29179.	1.5	5
120	Surface Oxide Characterization and Interface Evolution in Atomic Layer Deposition of Al <sub>2</sub> O <sub>3</sub> on InP(100) Studied by in Situ Infrared Spectroscopy. Journal of Physical Chemistry C, 2014, 118, 5862-5871.	1.5	16
121	Ab Initio Study of H <sub>2</sub> Associative Desorption on Ad-Dimer Reconstructed Si(001) and Ge(001)-(2Å-1) Surfaces. Journal of Physical Chemistry C, 2014, 118, 10088-10096.	1.5	5
122	Spectroscopic evaluation of out-of-plane surface vibration bands from surface functionalization of graphite oxide by fluorination. Carbon, 2014, 77, 577-591.	5.4	11
123	Monolayer Doping via Phosphonic Acid Grafting on Silicon: Microscopic Insight from Infrared Spectroscopy and Density Functional Theory Calculations. Advanced Functional Materials, 2013, 23, 3471-3477.	7.8	64
124	Selective, Sensitive, and Reversible Detection of Vapor-Phase High Explosives via Two-Dimensional Mapping: A New Strategy for MOF-Based Sensors. Crystal Growth and Design, 2013, 13, 4204-4207.	1.4	107
125	Water Cluster Confinement and Methane Adsorption in the Hydrophobic Cavities of a Fluorinated Metal-Organic Framework. Journal of the American Chemical Society, 2013, 135, 12615-12626.	6.6	114
126	Interfacial graphene growth in the Ni/SiO <sub>2</sub> system using pulsed laser deposition. Applied Physics Letters, 2013, 103, 134102.	1.5	20



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127	Controlling the Atomic Layer Deposition of Titanium Dioxide on Silicon: Dependence on Surface Termination. <i>Journal of Physical Chemistry C</i> , 2013, 117, 20250-20259.	1.5	58
128	Metal Contacts on Physical Vapor Deposited Monolayer MoS <sub>2</sub> . <i>ACS Nano</i> , 2013, 7, 11350-11357.	7.3	275
129	Mechanism of Preferential Adsorption of SO <sub>2</sub> into Two Microporous Paddle Wheel Frameworks M(bdc)(ted) <sub>0.5</sub> . <i>Chemistry of Materials</i> , 2013, 25, 4653-4662.	3.2	127
130	Anisotropic Optical Properties of Thin-Film Thiocarbocyanine Dye Aggregates. <i>Journal of Physical Chemistry C</i> , 2013, 117, 20186-20192.	1.5	10
131	Gold Nanoparticles on Oxide-Free Siliconâ€“Molecule Interface for Single Electron Transport. <i>Langmuir</i> , 2013, 29, 5066-5073.	1.6	14
132	Visible to Near-Infrared Sensitization of Silicon Substrates via Energy Transfer from Proximal Nanocrystals: Further Insights for Hybrid Photovoltaics. <i>ACS Nano</i> , 2013, 7, 3236-3245.	7.3	33
133	Mechanism of Carbon Dioxide Adsorption in a Highly Selective Coordination Network Supported by Direct Structural Evidence. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1692-1695.	7.2	97
134	Diffusion of Small Molecules in Metal Organic Framework Materials. <i>Physical Review Letters</i> , 2013, 110, 026102.	2.9	98
135	Manganese oxide nanorodâ€“graphene/vanadium oxide nanowireâ€“graphene binder-free paper electrodes for metal oxide hybrid supercapacitors. <i>Nano Energy</i> , 2013, 2, 966-975.	8.2	125
136	Vanadium oxide nanowire â€“ Graphene binder free nanocomposite paper electrodes for supercapacitors: A facile green approach. <i>Journal of Power Sources</i> , 2013, 230, 130-137.	4.0	142
137	Ligand Functionalization and Its Effect on CO <sub>2</sub> Adsorption in Microporous Metalâ€“Organic Frameworks. <i>Chemistry - an Asian Journal</i> , 2013, 8, 778-785.	1.7	39
138	Interfacial Chemistry in Al/CuO Reactive Nanomaterial and Its Role in Exothermic Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 605-613.	4.0	90
139	When metal organic frameworks turn into linear magnets. <i>Physical Review B</i> , 2013, 87, .	1.1	65
140	Selective detection of olefins using a luminescent silver-functionalized metal organic framework, RPM3. <i>Microporous and Mesoporous Materials</i> , 2013, 174, 100-107.	2.2	34
141	In Situ Infrared Spectroscopic Study of Atomic Layer-Deposited TiO <sub>2</sub> Thin Films by Nonaqueous Routes. <i>Chemistry of Materials</i> , 2013, 25, 1706-1712.	3.2	35
142	Precursor design and reaction mechanisms for the atomic layer deposition of metal films. <i>Coordination Chemistry Reviews</i> , 2013, 257, 3271-3281.	9.5	82
143	Functionalization of oxide-free silicon surfaces. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2013, 31, .	0.9	29
144	Recovery of Nonwetting Characteristics by Surface Modification of Gallium-Based Liquid Metal Droplets Using Hydrochloric Acid Vapor. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 179-185.	4.0	225

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