

Robert F Hicks

List of Publications by Year in descending order

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53
papers

1,406
citations

304743

22
h-index

330143

37
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56
all docs

56
docs citations

56
times ranked

1424
citing authors

#	ARTICLE	IF	CITATIONS
1	Reaction Chemistry in the Afterglow of an Oxygen-Helium, Atmospheric-Pressure Plasma. <i>Journal of Physical Chemistry A</i> , 2000, 104, 8027-8032.	2.5	195
2	Characterization of (methylcyclopentadienyl)trimethylplatinum and low-temperature organometallic chemical vapor deposition of platinum metal. <i>Journal of the American Chemical Society</i> , 1989, 111, 8779-8784.	13.7	103
3	Organometallic chemical vapor deposition of platinum. Reaction kinetics and vapor pressures of precursors. <i>Chemistry of Materials</i> , 1992, 4, 162-166.	6.7	96
4	Surface Analysis of Polymers Treated by Remote Atmospheric Pressure Plasma. <i>Langmuir</i> , 2010, 26, 3710-3719.	3.5	67
5	Kinetic Control of Self-Catalyzed Indium Phosphide Nanowires, Nanocones, and Nanopillars. <i>Nano Letters</i> , 2009, 9, 2207-2211.	9.1	65
6	Infrared study of hydrogen adsorbed on (2 \times 8) and (2 \times 6) GaAs(100). <i>Physical Review Letters</i> , 1994, 72, 250-253.	7.8	53
7	Surface Activation of Poly(methyl methacrylate) via Remote Atmospheric Pressure Plasma. <i>Plasma Processes and Polymers</i> , 2010, 7, 482-493.	3.0	47
8	Ring Opening of Aromatic Polymers by Remote Atmospheric-Pressure Plasma. <i>IEEE Transactions on Plasma Science</i> , 2009, 37, 823-831.	1.3	45
9	Sites for hydrogen adsorption on GaAs(001). <i>Surface Science</i> , 1995, 323, 6-18.	1.9	38
10	Inorganic Surface Nanostructuring by Atmospheric Pressure Plasma-Induced Graft Polymerization. <i>Langmuir</i> , 2007, 23, 10756-10764.	3.5	38
11	Atmospheric Pressure Plasma Activation of Polymers and Composites for Adhesive Bonding. <i>Reviews of Adhesion and Adhesives</i> , 2013, 1, 46-87.	3.4	36
12	Low-temperature organometallic chemical vapor deposition of platinum. <i>Applied Physics Letters</i> , 1988, 53, 1591-1592.	3.3	35
13	Atmospheric oxygen plasma activation of silicon (100) surfaces. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2010, 28, 476-485.	2.1	35
14	Infrared spectroscopy of carbon monoxide adsorbed on Pt/L zeolite. <i>Catalysis Letters</i> , 1993, 18, 193-208.	2.6	34
15	Turnover rates for heptane reforming over Pt/L zeolites with different alkali cations. <i>Catalysis Letters</i> , 1993, 18, 219-225.	2.6	33
16	Self-catalyzed growth of InP/InSb axial nanowire heterostructures. <i>Journal of Crystal Growth</i> , 2011, 329, 6-11.	1.5	30
17	The influence of metal-support interactions on the catalytic properties of Pd/La ₂ O ₃ . <i>Applications of Surface Science</i> , 1984, 19, 315-329.	1.0	28
18	Low-Temperature Organometallic Chemical Vapor Deposition of Transition Metals. <i>Materials Research Society Symposia Proceedings</i> , 1988, 131, 395.	0.1	27

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19	Modeling of the coupled kinetics and transport in the organometallic vapor-phase epitaxy of cadmium telluride. <i>Journal of Crystal Growth</i> , 1991, 112, 192-202.	1.5	27
20	Atmospheric pressure plasma effects on the adhesive bonding properties of stainless steel and epoxy composites. <i>Journal of Composite Materials</i> , 2014, 48, 219-233.	2.4	26
21	Self-catalyzed vapor-liquid-solid growth of InP _{1-x} Sbx nanostructures. <i>Journal of Crystal Growth</i> , 2011, 319, 25-30.	1.5	25
22	Rapid oxidative activation of carbon nanotube yarn and sheet by a radio frequency, atmospheric pressure, helium and oxygen plasma. <i>Carbon</i> , 2013, 57, 11-21.	10.3	25
23	Mechanism of Arsine Adsorption on the Gallium-Rich GaAs(001) (4 Å ⁻²) Surface. <i>Journal of Physical Chemistry B</i> , 2000, 104, 5595-5602.	2.6	22
24	Thermal stability of palladium on ceria-doped alumina. <i>Catalysis Letters</i> , 1990, 6, 271-279.	2.6	21
25	Observation of carbon incorporation during gallium arsenide growth by molecular beam epitaxy. <i>Applied Physics Letters</i> , 1988, 53, 2203-2204.	3.3	20
26	A diffusion model for selective-area epitaxy by metalorganic chemical vapor deposition. <i>Journal of Crystal Growth</i> , 1995, 151, 204-212.	1.5	19
27	Sites for trimethylgallium adsorption on GaAs(001). <i>Surface Science</i> , 1995, 330, 135-146.	1.9	19
28	Eco-friendly sizing technology of cotton yarns with He/O ₂ atmospheric pressure plasma treatment and green sizing recipes. <i>Textile Research Journal</i> , 2013, 83, 2177-2190.	2.2	19
29	Chemistry of photo-assisted organometallic vapor-phase epitaxy of cadmium telluride. <i>Journal of Crystal Growth</i> , 1992, 123, 500-518.	1.5	18
30	Atmospheric pressure plasma activation as a surface pre-treatment for the adhesive bonding of aluminum 2024. <i>Journal of Adhesion Science and Technology</i> , 2014, 28, 653-674.	2.6	17
31	Vibrational spectra of hydrogen atoms adsorbed on MBE-grown GaAs(100). <i>Surface Science</i> , 1988, 204, L721-L724.	1.9	16
32	Coupled gas and surface reactions in the organometallic vapor-phase epitaxy of cadmium telluride. <i>Journal of Crystal Growth</i> , 1992, 124, 676-683.	1.5	15
33	Chemistry of Cadmium Telluride Organometallic Vapor-Phase Epitaxy. <i>The Journal of Physical Chemistry</i> , 1995, 99, 3574-3582.	2.9	15
34	Kinetics of heptane reforming on Pt/L zeolite. <i>Catalysis Letters</i> , 1993, 18, 209-218.	2.6	14
35	Sites for arsine adsorption on GaAs(001). <i>Surface Science</i> , 1996, 347, 289-302.	1.9	12
36	Effects of Ligand Exchange Reactions on the Composition of Cd _{1-y} Zn _y Te Grown by Metalorganic Vapor-Phase Epitaxy. <i>Journal of Physical Chemistry B</i> , 1997, 101, 4882-4888.	2.6	12

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37	Organometallic chemical vapor deposition of tungsten metal, and suppression of carbon incorporation by codeposition of platinum. Applied Physics Letters, 1992, 61, 1793-1795.	3.3	10
38	Reaction Chemistry of ZnTe Metalorganic Vapor-Phase Epitaxy. Journal of Physical Chemistry A, 1997, 101, 2451-2458.	2.5	8
39	Phosphine Adsorption on the In-Rich InP(001) Surface: Evidence of Surface Dative Bonds at Room Temperature. Langmuir, 2007, 23, 10109-10115.	3.5	7
40	A Career in Catalysis: Alexis T. Bell. ACS Catalysis, 2017, 7, 8628-8640.	11.2	5
41	Atmospheric pressure plasma reduction of copper oxide to copper metal. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, .	2.1	4
42	A Study of Hydrogen Atom Adsorption on Gallium Arsenide (100) by Multiple Internal Reflection Infrared Spectroscopy. Materials Research Society Symposia Proceedings, 1991, 222, 47.	0.1	3
43	Controlling the group II composition in CdZnTe alloys grown by organometallic vapor phase epitaxy: a kinetic model. Journal of Crystal Growth, 1996, 160, 310-319.	1.5	3
44	Self-catalyzed vapor-liquid-solid growth of InP/InAsP core-shell nanopillars. Journal of Crystal Growth, 2011, 314, 34-38.	1.5	3
45	Reaction engineering of photo-assisted chemical vapor deposition. Journal of Crystal Growth, 1993, 129, 111-118.	1.5	1
46	Examination of Gallium Arsenide MOCVD Reaction Mechanisms. Materials Research Society Symposia Proceedings, 1993, 312, 151.	0.1	1
47	Evaluation of a zero-discharge reactor for the chemical vapor deposition of mercury telluride. Journal of Crystal Growth, 1997, 173, 386-392.	1.5	1
48	Surface decontamination using atmospheric oxygen-argon plasma. , 2008, , .		1
49	Atmospheric oxygen-helium plasma surface modification of medical plastics. , 2008, , .		1
50	The Effect of Support Composition on Platinum Crystallite Agglomeration in Oxygen. Materials Research Society Symposia Proceedings, 1987, 111, 195.	0.1	0
51	Characterization of Supported Metal Catalysts by X-ray Photoelectron Spectroscopy. ACS Symposium Series, 1989, , 214-221.	0.5	0
52	Infrared Study of Trimethylgallium Adsorption on GaAs(100). Materials Research Society Symposia Proceedings, 1994, 340, 105.	0.1	0
53	Composition and Structure of Vicinal Ge(100) Surfaces Exposed to Tertiarybutylarsine. Materials Research Society Symposia Proceedings, 1997, 485, 247.	0.1	0