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 g-index
56 all docs	56 docs citations	56 times ranked	1424 citing authors

#	Article	IF	Citations
1	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
2	A Career in Catalysis: Alexis T. Bell. ACS Catalysis, 2017, 7, 8628-8640.	11.2	5
3	Atmospheric pressure plasma activation as a surface pre-treatment for the adhesive bonding of aluminum 2024. Journal of Adhesion Science and Technology, 2014, 28, 653-674.	2.6	17
4	Atmospheric pressure plasma effects on the adhesive bonding properties of stainless steel and epoxy composites. Journal of Composite Materials, 2014, 48, 219-233.	2.4	26
5	Rapid oxidative activation of carbon nanotube yarn and sheet by a radio frequency, atmospheric pressure, helium and oxygen plasma. Carbon, 2013, 57, 11-21.	10.3	25
6	Eco-friendly sizing technology of cotton yarns with He/O₂ atmospheric pressure plasma treatment and green sizing recipes. Textile Reseach Journal, 2013, 83, 2177-2190.	2.2	19
7	Atmospheric Pressure Plasma Activation of Polymers and Composites for Adhesive Bonding. Reviews of Adhesion and Adhesives, 2013, 1, 46-87.	3.4	36
8	Self-catalyzed vaporâ€“liquidâ€“solid growth of InP1â^'xSbx nanostructures. Journal of Crystal Growth, 2011, 319, 25-30.	1.5	25
9	Self-catalyzed vaporâ€“liquidâ€“solid growth of InP/InAsP coreâ€“shell nanopillars. Journal of Crystal Growth, 2011, 314, 34-38.	1.5	3
10	Self-catalyzed growth of InP/InSb axial nanowire heterostructures. Journal of Crystal Growth, 2011, 329, 6-11.	1.5	30
11	Surface Activation of Poly(methyl methacrylate) via Remote Atmospheric Pressure Plasma. Plasma Processes and Polymers, 2010, 7, 482-493.	3.0	47
12	Atmospheric oxygen plasma activation of silicon (100) surfaces. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2010, 28, 476-485.	2.1	35
13	Surface Analysis of Polymers Treated by Remote Atmospheric Pressure Plasma. Langmuir, 2010, 26, 3710-3719.	3.5	67
14	Kinetic Control of Self-Catalyzed Indium Phosphide Nanowires, Nanocones, and Nanopillars. Nano Letters, 2009, 9, 2207-2211.	9.1	65
15	Ring Opening of Aromatic Polymers by Remote Atmospheric-Pressure Plasma. IEEE Transactions on Plasma Science, 2009, 37, 823-831.	1.3	45
16	Surface decontamination using atmospheric oxygen-argon plasma. , 2008, , .		1
17	Atmospheric oxygen-helium plasma surface modification of medical plastics. , 2008, , .		1
18	Phosphine Adsorption on the In-Rich InP(001) Surface:â€‰ Evidence of Surface Dative Bonds at Room Temperature. Langmuir, 2007, 23, 10109-10115.	3.5	7

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19	Inorganic Surface Nanostructuring by Atmospheric Pressure Plasma-Induced Graft Polymerization. Langmuir, 2007, 23, 10756-10764.	3.5	38
20	Mechanism of Arsine Adsorption on the Gallium-Rich GaAs(001)â˜'(4 Ã— 2) Surface. Journal of Physical Chemistry B, 2000, 104, 5595-5602.	2.6	22
21	Reaction Chemistry in the Afterglow of an Oxygenâ˜'Helium, Atmospheric-Pressure Plasma. Journal of Physical Chemistry A, 2000, 104, 8027-8032.	2.5	195
22	Composition and Structure of Vicinal Ge(100) Surfaces Exposed to Tertiarybutylarsine. Materials Research Society Symposia Proceedings, 1997, 485, 247.	0.1	0
23	Effects of Ligand Exchange Reactions on the Composition of Cd1-yZnyTe Grown by Metalorganic Vapor-Phase Epitaxy. Journal of Physical Chemistry B, 1997, 101, 4882-4888.	2.6	12
24	Reaction Chemistry of ZnTe Metalorganic Vapor-Phase Epitaxy. Journal of Physical Chemistry A, 1997, 101, 2451-2458.	2.5	8
25	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
26	Sites for arsine adsorption on GaAs(001). Surface Science, 1996, 347, 289-302.	1.9	12
27	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
28	A diffusion model for selective-area epitaxy by metalorganic chemical vapor deposition. Journal of Crystal Growth, 1995, 151, 204-212.	1.5	19
29	Chemistry of Cadmium Telluride Organometallic Vapor-Phase Epitaxy. The Journal of Physical Chemistry, 1995, 99, 3574-3582.	2.9	15
30	Sites for hydrogen adsorption on GaAs(001). Surface Science, 1995, 323, 6-18.	1.9	38
31	Sites for trimethylgallium adsorption on GaAs(001). Surface Science, 1995, 330, 135-146.	1.9	19
32	Infrared study of hydrogen adsorbed onc(2Ã—8) and (2Ã—6) GaAs(100). Physical Review Letters, 1994, 72, 250-253.	7.8	53
33	Infrared Study of Trimethylgallium Adsorption on GaAs(100). Materials Research Society Symposia Proceedings, 1994, 340, 105.	0.1	0
34	Reaction engineering of photo-assisted chemical vapor deposition. Journal of Crystal Growth, 1993, 129, 111-118.	1.5	1
35	Infrared spectroscopy of carbon monoxide adsorbed on Pt/L zeolite. Catalysis Letters, 1993, 18, 193-208.	2.6	34
36	Kinetics of heptane reforming on Pt/L zeolite. Catalysis Letters, 1993, 18, 209-218.	2.6	14

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37	Turnover rates for heptane reforming over Pt/L zeolites with different alkali cations. Catalysis Letters, 1993, 18, 219-225.	2.6	33
38	Examination of Gallium Arsenide Mocvd Reaction Mechanisms. Materials Research Society Symposia Proceedings, 1993, 312, 151.	0.1	1
39	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
40	Organometallic chemical vapor deposition of platinum. Reaction kinetics and vapor pressures of precursors. Chemistry of Materials, 1992, 4, 162-166.	6.7	96
41	Coupled gas and surface reactions in the organometallic vapor-phase epitaxy of cadmium telluride. Journal of Crystal Growth, 1992, 124, 676-683.	1.5	15
42	Chemistry of photo-assisted organometallic vapor-phase epitaxy of cadnium telluride. Journal of Crystal Growth, 1992, 123, 500-518.	1.5	18
43	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
44	Modeling of the coupled kinetics and transport in the organometallic vapor-phase epitaxy of cadmium telluride. Journal of Crystal Growth, 1991, 112, 192-202.	1.5	27
45	Thermal stability of palladium on ceria-doped alumina. Catalysis Letters, 1990, 6, 271-279.	2.6	21
46	Characterization of Supported Metal Catalysts by X-ray Photoelectron Spectroscopy. ACS Symposium Series, 1989, , 214-221.	0.5	0
47	Characterization of (methylcyclopentadienyl)trimethylplatinum and low-temperature organometallic chemical vapor deposition of platinum metal. Journal of the American Chemical Society, 1989, 111, 8779-8784.	13.7	103
48	Vibrational spectra of hydrogen atoms adsorbed on MBE-grown GaAs(100). Surface Science, 1988, 204, L721-L724.	1.9	16
49	Observation of carbon incorporation during gallium arsenide growth by molecular beam epitaxy. Applied Physics Letters, 1988, 53, 2203-2204.	3.3	20
50	Lowâ€temperature organometallic chemical vapor deposition of platinum. Applied Physics Letters, 1988, 53, 1591-1592.	3.3	35
51	Low-Temperature Organometallic Chemical Vapor Deposition of Transition Metals. Materials Research Society Symposia Proceedings, 1988, 131, 395.	0.1	27
52	The Effect of Support Composition on Platinum Crystallite Agglomeration in Oxygen. Materials Research Society Symposia Proceedings, 1987, 111, 195.	0.1	0
53	The influence of metal-support interactions on the catalytic properties of Pd/La2O3. Applications of Surface Science, 1984, 19, 315-329.	1.0	28