

Jonathan Phillips

List of Publications by Year in descending order

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45
papers

815
citations

430874

18
h-index

526287

27
g-index

46
all docs

46
docs citations

46
times ranked

722
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Modification and Characterization of Chemical Surface Properties of Activated Carbon:Â Microcalorimetric, Electrochemical, and Thermal Desorption Probes. Langmuir, 1997, 13, 3414-3421.	3.5	96
2	Low-Temperature Generation of Basic Carbon Surfaces by Hydrogen Spillover. The Journal of Physical Chemistry, 1996, 100, 17243-17248.	2.9	70
3	Plasma production of metallic nanoparticles. Journal of Materials Research, 1992, 7, 2107-2113.	2.6	47
4	Enhancement of electrical conductivity of carbon nanotube sheets through copper addition using reduction expansion synthesis. Materials Research Bulletin, 2020, 131, 110969.	5.2	44
5	Reaction-enhanced sintering of platinum thin films during ethylene oxidation. Journal of Applied Physics, 1986, 59, 769-779.	2.5	36
6	Microcalorimetric Study of the Influence of Surface Chemistry on the Adsorption of Water by High Surface Area Carbons. Journal of Physical Chemistry B, 2000, 104, 8170-8176.	2.6	34
7	Catalytic etching of platinum foils and thin films in hydrogen-oxygen mixtures. The Journal of Physical Chemistry, 1988, 92, 5731-5738.	2.9	33
8	Evidence of High Electrocatalytic Activity of Molybdenum Carbide Supported Platinum Nanorrafts. Journal of the Electrochemical Society, 2015, 162, H681-H685.	2.9	32
9	Catalytic etching of platinum during ethylene oxidation. The Journal of Physical Chemistry, 1985, 89, 591-600.	2.9	30
10	Study of relaxation effects in the ^{57}Fe MÃssbauer spectra of carbon-supported iron carbide particles. Journal of Applied Physics, 1985, 58, 1943-1949.	2.5	30
11	Impact of Pretreatments on the Selectivity of Carbon for NOx Adsorption/Reduction. Energy & Fuels, 1999, 13, 903-906.	5.1	26
12	New microcalorimeter for the measurement of differential heats of adsorption of gases on high surface area solids. Review of Scientific Instruments, 1985, 56, 2312-2318.	1.3	25
13	Transport model of charged particle behavior in the afterglow region of a microwave generated oxygen plasma. Journal of Applied Physics, 1993, 74, 825-831.	2.5	25
14	Super Dielectric Materials. Materials, 2014, 7, 8197-8212.	2.9	25
15	Electrically Conductive CNT Composites at Loadings below Theoretical Percolation Values. Nanomaterials, 2019, 9, 491.	4.1	23
16	Hybrid Composites Based on Carbon Fiber/Carbon Nanofilament Reinforcement. Materials, 2014, 7, 4182-4195.	2.9	22
17	Detailed model of the afterglow region of a microwave generated oxygen plasma. Journal of Applied Physics, 1992, 72, 870-878.	2.5	19
18	High-stability tin/carbon battery electrodes produced using reduction expansion synthesis. Carbon, 2018, 132, 411-419.	10.3	18

#	ARTICLE	IF	CITATIONS
19	Tube-Super Dielectric Materials: Electrostatic Capacitors with Energy Density Greater than 200 JÂ·cm ³ . <i>Materials</i> , 2015, 8, 6208-6227.	2.9	15
20	Reductive/expansion synthesis of zero valent submicron and nanometal particles. <i>Journal of Materials Research</i> , 2011, 26, 672-681.	2.6	14
21	Catalytic Synergism in Physical Mixtures. <i>Langmuir</i> , 1996, 12, 2756-2761.	3.5	13
22	Modeling hydrogen spillover in dual-bed catalytic reactors. <i>AIChE Journal</i> , 2004, 50, 821-828.	3.6	13
23	Low-power plasma torch method for the production of crystalline spherical ceramic particles. <i>Journal of Materials Research</i> , 2001, 16, 1256-1265.	2.6	11
24	Catalytic Synergism in Physical Mixtures of Supported Iron ²⁺ /Cerium and Supported Noble Metal for Hydroisomerization of 1,3-Butadiene. <i>Langmuir</i> , 1997, 13, 477-482.	3.5	10
25	Novel Process for Solid State Reduction of Metal Oxides and Hydroxides. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2013, 44, 115-122.	2.1	10
26	Fabrication of a Low Density Carbon Fiber Foam and Its Characterization as a Strain Gauge. <i>Materials</i> , 2014, 7, 3699-3714.	2.9	10
27	Novel Materials with Effective Super Dielectric Constants for Energy Storage. <i>Journal of Electronic Materials</i> , 2015, 44, 1367-1376.	2.2	10
28	Novel Dual-Bed Reactors: Utilization of Hydrogen Spillover in Reactor Design. <i>Langmuir</i> , 2004, 20, 1189-1193.	3.5	9
29	Investigation of Fumed Silica/Aqueous NaCl Superdielectric Material. <i>Materials</i> , 2016, 9, 118.	2.9	9
30	Novel Superdielectric Materials: Aqueous Salt Solution Saturated Fabric. <i>Materials</i> , 2016, 9, 918.	2.9	9
31	Measurement and modeling of N-atom behavior in the afterglow of a microwave plasma. <i>AIChE Journal</i> , 1996, 42, 1361-1370.	3.6	8
32	Testing the Tube Super-Dielectric Material Hypothesis: Increased Energy Density Using NaCl. <i>Journal of Electronic Materials</i> , 2016, 45, 5499-5506.	2.2	7
33	Impact of Current and Temperature on Extremely Low Loading Epoxy-CNT Conductive Composites. <i>Polymers</i> , 2020, 12, 867.	4.5	7
34	Toward an Improved Understanding of the Role of Dielectrics in Capacitors. <i>Materials</i> , 2018, 11, 1519.	2.9	6
35	Tin foil reconstruction in a hydrogen plasma. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1990, 8, 3941-3947.	2.1	5
36	Novel Chemical Process for Producing Chrome Coated Metal. <i>Materials</i> , 2018, 11, 78.	2.9	5

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37	Understanding Dielectrics: Impact of External Salt Water Bath. <i>Materials</i> , 2019, 12, 2033.	2.9	3
38	Reduction Expansion Synthesis of Sintered Metal. <i>Materials</i> , 2019, 12, 2890.	2.9	3
39	Theoretical and experimental basis for the super dielectric model of dielectric materials. <i>Physics Essays</i> , 2020, 33, 306-318.	0.4	1
40	Detailed Model of the Afterglow Region of a Microwave Generated Oxygen Plasma. <i>Materials Research Society Symposia Proceedings</i> , 1992, 268, 49.	0.1	0
41	Iron on Carbon Catalaysts for the Photocatalytic Degradation Orange II. <i>Journal of Advanced Oxidation Technologies</i> , 2015, 18, .	0.5	0
42	Scaling up the Fabrication of Mechanically-Robust Carbon Nanofiber Foams. <i>Fibers</i> , 2016, 4, 9.	4.0	0
43	Performance of Aqueous Ion Solution/Tube-Super Dielectric Material-Based Capacitors as a Function of Discharge Time. , 2018, , .		0
44	Creating Strong Titanium/Titanium Hydride Brown Bodies at Ambient Pressure and Moderate Temperatures. <i>Materials</i> , 2020, 13, 5008.	2.9	0
45	Study of the Impact of Graphite Orientation and Ion Transport on EDLC Performance. <i>Materials</i> , 2022, 15, 155.	2.9	0