

# Jeffrey W Baldwin

## List of Publications by Year in descending order

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41  
papers

3,908  
citations

236925

25  
h-index

302126

39  
g-index

44  
all docs

44  
docs citations

44  
times ranked

5558  
citing authors

#	ARTICLE	IF	CITATIONS
1	Properties of Fluorinated Graphene Films. <i>Nano Letters</i> , 2010, 10, 3001-3005.	9.1	980
2	Unimolecular Electrical Rectification in Hexadecylquinolinium Tricyanoquinodimethanide. <i>Journal of the American Chemical Society</i> , 1997, 119, 10455-10466.	13.7	617
3	Wafer-scale Reduced Graphene Oxide Films for Nanomechanical Devices. <i>Nano Letters</i> , 2008, 8, 3441-3445.	9.1	399
4	Solubilization of Single-Wall Carbon Nanotubes by Supramolecular Encapsulation of Helical Amylose. <i>Journal of the American Chemical Society</i> , 2003, 125, 4426-4427.	13.7	280
5	Design Strategies for Solid-State Supramolecular Arrays Containing Both Mixed-Metalated and Freebase Porphyrins. <i>Journal of the American Chemical Society</i> , 1999, 121, 1137-1144.	13.7	245
6	Surface Doping and Band Gap Tunability in Hydrogenated Graphene. <i>ACS Nano</i> , 2012, 6, 17-22.	14.6	132
7	Thermal Fluorination and Annealing of Single-Wall Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2003, 107, 5690-5695.	2.6	115
8	Electrical Rectification in a Langmuir-Blodgett Monolayer of Dimethylanilinoazafullerene Sandwiched between Gold Electrodes. <i>Journal of Physical Chemistry B</i> , 2003, 107, 1021-1027.	2.6	102
9	Tuning the electronic properties of graphene by hydrogenation in a plasma enhanced chemical vapor deposition reactor. <i>Carbon</i> , 2011, 49, 4420-4426.	10.3	101
10	Rectification and Nonlinear Optical Properties of a Langmuir-Blodgett Monolayer of a Pyridinium Dye. <i>Journal of Physical Chemistry B</i> , 2002, 106, 12158-12164.	2.6	81
11	Effect of viscous loss on mechanical resonators designed for mass detection. <i>Applied Physics Letters</i> , 2006, 88, 041921.	3.3	79
12	Studies in the Dithienylbenzo[c]thiophene Series. <i>Journal of Organic Chemistry</i> , 1998, 63, 3105-3112.	3.2	66
13	Potassium-Promoted Molybdenum Carbide as a Highly Active and Selective Catalyst for CO <sub>2</sub> Conversion to CO. <i>ChemSusChem</i> , 2017, 10, 2408-2415.	6.8	65
14	Two-dimensional array of coupled nanomechanical resonators. <i>Applied Physics Letters</i> , 2006, 88, 143504.	3.3	54
15	Hydrogenation and Fluorination of Graphene Models: Analysis via the Average Local Ionization Energy. <i>Journal of Physical Chemistry A</i> , 2012, 116, 8644-8652.	2.5	54
16	Spectroscopic Studies of Hexadecylquinolinium Tricyanoquinodimethanide. <i>Journal of Physical Chemistry B</i> , 1999, 103, 4269-4277.	2.6	53
17	Assessing the viability of K-Mo <sub>2</sub> C for reverse water-gas shift scale-up: molecular to laboratory to pilot scale. <i>Energy and Environmental Science</i> , 2020, 13, 2524-2539.	30.8	51
18	Condensed Thiophenes and Selenophenes: Thionyl Chloride and Selenium Oxychloride as Sulfur and Selenium Transfer Reagents. <i>Journal of Organic Chemistry</i> , 2002, 67, 2453-2458.	3.2	50

#	ARTICLE	IF	CITATIONS
19	Nanocrystalline diamond resonator array for RF signal processing. <i>Diamond and Related Materials</i> , 2006, 15, 2061-2067.	3.9	41
20	Hydrocarbon Synthesis from Carbon Dioxide and Hydrogen: A Two-Step Process. <i>Energy &amp; Fuels</i> , 2013, 27, 6348-6354.	5.1	40
21	Ultrathin Single Crystal Diamond Nanomechanical Dome Resonators. <i>Nano Letters</i> , 2011, 11, 4304-4308.	9.1	39
22	Giant negative magnetoresistance and a transition from strong to weak localization in hydrogenated graphene. <i>Physical Review B</i> , 2012, 85, .	3.2	38
23	Damping Models for Microcantilevers, Bridges, and Torsional Resonators in the Free-Molecular-Flow Regime. <i>Journal of Microelectromechanical Systems</i> , 2008, 17, 503-511.	2.5	36
24	Fabrication of short-wavelength photonic crystals in wide-band-gap nanocrystalline diamond films. <i>Journal of Vacuum Science &amp; Technology B</i> , 2006, 24, 50.	1.3	32
25	The Effect of Copper Addition on the Activity and Stability of Iron-Based CO <sub>2</sub> Hydrogenation Catalysts. <i>Molecules</i> , 2017, 22, 1579.	3.8	26
26	CMOS-Integrated RF MEMS Resonators. <i>Journal of Microelectromechanical Systems</i> , 2010, 19, 807-815.	2.5	25
27	Low temperature internal friction in nanocrystalline diamond films. <i>Applied Physics Letters</i> , 2005, 86, 081910.	3.3	19
28	The role of catalyst environment on CO <sub>2</sub> hydrogenation in a fixed-bed reactor. <i>Journal of CO<sub>2</sub> Utilization</i> , 2017, 17, 1-9.	6.8	16
29	Low-energy resonant scattering from hydrogen impurities in graphene. <i>Physical Review B</i> , 2013, 88, .	3.2	11
30	Energy Dissipation Pathways in Few-Layer MoS <sub>2</sub> Nanoelectromechanical Systems. <i>Scientific Reports</i> , 2017, 7, 5656.	3.3	10
31	Dissipation in single crystal diamond micromechanical annular plate resonators. <i>Diamond and Related Materials</i> , 2011, 20, 1204-1207.	3.9	9
32	Differences in Physical and Biochemical Properties of <i>Thermus scotoductus</i> SA-01 Cultured with Dielectric or Convection Heating. <i>Applied and Environmental Microbiology</i> , 2015, 81, 6285-6293.	3.1	7
33	Fluorinated Carbon Nanomaterials: XeF <sub>2</sub> Fluorination of Graphene. <i>ACS Symposium Series</i> , 2011, , 11-30.	0.5	6
34	Critical Role of a Nanometer-Scale Microballoon Shell on Bulk Acoustic Properties of Doped Soft Matter. <i>Langmuir</i> , 2020, 36, 5787-5792.	3.5	6
35	Evaluation of CO <sub>2</sub> Hydrogenation in a Modular Fixed-Bed Reactor Prototype. <i>Catalysts</i> , 2020, 10, 970.	3.5	6
36	Chemically functionalized graphene for bipolar electronics. <i>Applied Physics Letters</i> , 2013, 102, 103114.	3.3	4

#	ARTICLE	IF	CITATIONS
37	Evidence for Spin Glass Ordering Near the Weak to Strong Localization Transition in Hydrogenated Graphene. ACS Nano, 2016, 10, 4857-4862.	14.6	4
38	Cylindrical heat conduction and structural acoustic models for enclosed fiber array thermophones. Journal of the Acoustical Society of America, 2017, 142, 3187-3197.	1.1	3
39	Observation of a transition to a localized ultrasonic phase in soft matter. Communications Physics, 2022, 5, .	5.3	3
40	Optically Defined Chemical Functionalization of Silicon Nanomechanical Resonators for Mass Sensing. , 2008, , .		1
41	Unimolecular Rectification between 370 K and 105 K and Spectroscopic Properties of Hexadecylquinolinium Tricyanoquinodimethanide. ACS Symposium Series, 2001, , 50-65.	0.5	0