

Dmitriy A Dikin

List of Publications by Year in descending order

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44
papers

35,216
citations

186265

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265206

42
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45
all docs

45
docs citations

45
times ranked

36649
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of graphene-based nanosheets via chemical reduction of exfoliated graphite oxide. Carbon, 2007, 45, 1558-1565.	10.3	12,577
2	Graphene-based composite materials. Nature, 2006, 442, 282-286.	27.8	11,655
3	Preparation and characterization of graphene oxide paper. Nature, 2007, 448, 457-460.	27.8	5,074
4	Tunable Electrical Conductivity of Individual Graphene Oxide Sheets Reduced at "Low" Temperatures. Nano Letters, 2008, 8, 4283-4287.	9.1	820
5	Graphene-Silica Composite Thin Films as Transparent Conductors. Nano Letters, 2007, 7, 1888-1892.	9.1	813
6	Electrically Conductive "Alkylated" Graphene Paper via Chemical Reduction of Amine-Functionalized Graphene Oxide Paper. Advanced Materials, 2010, 22, 892-896.	21.0	568
7	Graphene Oxide Sheets Chemically Cross-Linked by Polyallylamine. Journal of Physical Chemistry C, 2009, 113, 15801-15804.	3.1	483
8	Mechanics of a Carbon Nanocoil. Nano Letters, 2003, 3, 1299-1304.	9.1	333
9	Chemically Active Reduced Graphene Oxide with Tunable C/O Ratios. ACS Nano, 2011, 5, 4380-4391.	14.6	330
10	Simple Approach for High-Contrast Optical Imaging and Characterization of Graphene-Based Sheets. Nano Letters, 2007, 7, 3569-3575.	9.1	311
11	Polymer-Graphite Nanocomposites: Effective Dispersion and Major Property Enhancement via Solid-State Shear Pulverization. Macromolecules, 2008, 41, 1905-1908.	4.8	273
12	Reduction Kinetics of Graphene Oxide Determined by Electrical Transport Measurements and Temperature Programmed Desorption. Journal of Physical Chemistry C, 2009, 113, 18480-18486.	3.1	207
13	Crystalline Boron Nanoribbons: Synthesis and Characterization. Nano Letters, 2004, 4, 963-968.	9.1	206
14	Graphene oxide windows for in situ environmental cell photoelectron spectroscopy. Nature Nanotechnology, 2011, 6, 651-657.	31.5	197
15	Characterization of Thermally Reduced Graphene Oxide by Imaging Ellipsometry. Journal of Physical Chemistry C, 2008, 112, 8499-8506.	3.1	196
16	Systematic Post-assembly Modification of Graphene Oxide Paper with Primary Alkylamines. Chemistry of Materials, 2010, 22, 4153-4157.	6.7	164
17	Descriptor-based methodology for statistical characterization and 3D reconstruction of microstructural materials. Computational Materials Science, 2014, 85, 206-216.	3.0	137
18	Computational microstructure characterization and reconstruction for stochastic multiscale material design. CAD Computer Aided Design, 2013, 45, 65-76.	2.7	118

#	ARTICLE	IF	CITATIONS
19	Drop-Casted Self-Assembling Graphene Oxide Membranes for Scanning Electron Microscopy on Wet and Dense Gaseous Samples. <i>ACS Nano</i> , 2011, 5, 10047-10054.	14.6	115
20	Structure Evolution and Thermoelectric Properties of Carbonized Polydopamine Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 6655-6660.	8.0	77
21	Epoxide Speciation and Functional Group Distribution in Graphene Oxide Paper-Like Materials. <i>Advanced Functional Materials</i> , 2012, 22, 3950-3957.	14.9	73
22	High Conductivity, High Strength Solid Electrolytes Formed by in Situ Encapsulation of Ionic Liquids in Nanofibrillar Methyl Cellulose Networks. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 13426-13436.	8.0	67
23	Realization of nanoscale resolution with a micromachined thermally actuated testing stage. <i>Review of Scientific Instruments</i> , 2004, 75, 2154-2162.	1.3	50
24	Electrical and mechanical properties of poly(dopamine)-modified copper/reduced graphene oxide composites. <i>Journal of Materials Science</i> , 2017, 52, 11620-11629.	3.7	45
25	Utilizing real and statistically reconstructed microstructures for the viscoelastic modeling of polymer nanocomposites. <i>Composites Science and Technology</i> , 2012, 72, 1725-1732.	7.8	40
26	Microsystem for nanofiber electromechanical measurements. <i>Sensors and Actuators A: Physical</i> , 2009, 155, 1-7.	4.1	35
27	Electrostatic-Force-Directed Assembly of Ag Nanocrystals onto Vertically Aligned Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2007, 111, 17919-17922.	3.1	33
28	In situ mechanical testing of templated carbon nanotubes. <i>Review of Scientific Instruments</i> , 2006, 77, 125101.	1.3	30
29	RIPENING OF SILVER NANOPARTICLES ON CARBON NANOTUBES. <i>Nano</i> , 2007, 02, 149-156.	1.0	26
30	Spontaneous Periodic Delamination of Thin Films To Form Crack-Free Metal and Silicon Ribbons with High Stretchability. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 44938-44947.	8.0	24
31	Pilot study on biocompatibility of fluorescent nanodiamond-(NV)-Z~800 particles in rats: safety, pharmacokinetics, and bio-distribution (part III). <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 5449-5468.	6.7	24
32	Controllable Patterning and CVD Growth of Isolated Carbon Nanotubes with Direct Parallel Writing of Catalyst Using Dip-Pen Nanolithography. <i>Small</i> , 2009, 5, 2523-2527.	10.0	21
33	A Self-Binding, Melt-Castable, Crystalline Organic Electrolyte for Sodium Ion Conduction. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15254-15257.	13.8	21
34	Preparation and electrical properties of sintered copper powder compacts modified by polydopamine-derived carbon nanofilms. <i>Journal of Materials Science</i> , 2018, 53, 6562-6573.	3.7	16
35	Lamellar, micro-phase separated blends of methyl cellulose and dendritic polyethylene glycol, POSS-PEG. <i>Carbohydrate Polymers</i> , 2016, 136, 19-29.	10.2	12
36	Improving Interlayer Adhesion of Poly(p-phenylene terephthalamide) (PPTA)/Ultra-high-molecular-weight Polyethylene (UHMWPE) Laminates Prepared by Plasma Treatment and Hot Pressing Technique. <i>Polymers</i> , 2021, 13, 2600.	4.5	9

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37	Interchangeable Stage and Probe Mechanisms for Microscale Universal Mechanical Tester. Journal of Microelectromechanical Systems, 2012, 21, 458-466.	2.5	7
38	Structure-Mechanical Property Relations of Skin-Core Regions of Poly(p-phenylene terephthalamide) Single Fiber. Scientific Reports, 2019, 9, 740.	3.3	7
39	A Self-Binding, Melt-Castable, Crystalline Organic Electrolyte for Sodium Ion Conduction. Angewandte Chemie, 2016, 128, 15480-15483.	2.0	6
40	Unravelling the structural and dynamical complexity of the equilibrium liquid grain-binding layer in highly conductive organic crystalline electrolytes. Journal of Materials Chemistry A, 2018, 6, 4394-4404.	10.3	6
41	Microstructure Reconstruction for Stochastic Multiscale Material Design. , 2011, , .		5
42	A Novel Way to Go Whole Cell in Patch-Clamp Experiments. IEEE Transactions on Biomedical Engineering, 2010, 57, 2764-2770.	4.2	4
43	Intrinsic resonance properties of thin superconducting film in non-Josephson oscillation regime. European Physical Journal D, 1996, 46, 625-626.	0.4	0
44	Conductivity of low-and high-Tc metal-type superconducting weak-links under electromagnetic field irradiation. European Physical Journal D, 1996, 46, 679-680.	0.4	0