Dmitriy A Dikin

List of PR Articles by Year in descending order

44 PR articles	17,759 PR citations	181214 26 PR h-index	225880 42 g-index
47 documents	36984 doc citations	163555 29 h-index	35408 citing authors

#	Article	IF	PR Citations
1	Damage Resistance of KevlarÂ® Fabric, UHMWPE, PVB Multilayers Subjected to Concentrated Drop-Weight Impact. Polymers, 2024, 16, 1693.	4.6	3
2	A soft co-crystalline solid electrolyte for lithium-ion batteries. Nature Materials, 2023, 22, 627-635.	35.2	102
3	Anti-Ballistic Performance of PPTA/UHMWPE Laminates. Polymers, 2023, 15, 2281.	4.6	13
4	Improving Interlayer Adhesion of Poly(p-phenylene terephthalamide) (PPTA)/Ultra-high-molecular-weight Polyethylene (UHMWPE) Laminates Prepared by Plasma Treatment and Hot Pressing Technique. Polymers, 2021, 13, 2600.	4.6	12
5	Structure-Mechanical Property Relations of Skin-Core Regions of Poly(p-phenylene terephthalamide) Single Fiber. Scientific Reports, 2019, 9, .	3.5	14
6	Preparation and electrical properties of sintered copper powder compacts modified by polydopamine-derived carbon nanofilms. Journal of Materials Science, 2018, 53, 6562-6573.	3.5	21
7	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.	9.3	10
8	Pilot study on biocompatibility of fluorescent nanodiamond-(NV)-Z~800 particles in rats: safety, pharmacokinetics, and bio-distribution (part III). International Journal of Nanomedicine, 2018, Volume 13, 5449-5468.	5.8	29
9	Structure Evolution and Thermoelectric Properties of Carbonized Polydopamine Thin Films. ACS Applied Materials & Interfaces, 2017, 9, 6655-6660.	8.0	97
10	Spontaneous Periodic Delamination of Thin Films To Form Crack-Free Metal and Silicon Ribbons with High Stretchability. ACS Applied Materials & Interfaces, 2017, 9, 44938-44947.	8.0	28
11	Electrical and mechanical properties of poly(dopamine)-modified copper/reduced graphene oxide composites. Journal of Materials Science, 2017, 52, 11620-11629.	3.5	52
12	A Selfâ€Binding, Meltâ€Castable, Crystalline Organic Electrolyte for Sodium Ion Conduction. Angewandte Chemie, 2016, 128, 15480-15483.	1.4	6
13	High Conductivity, High Strength Solid Electrolytes Formed by in Situ Encapsulation of Ionic Liquids in Nanofibrillar Methyl Cellulose Networks. ACS Applied Materials & Interfaces, 2016, 8, 13426-13436.	8.0	78
14	A Selfâ€Binding, Meltâ€Castable, Crystalline Organic Electrolyte for Sodium Ion Conduction. Angewandte Chemie - International Edition, 2016, 55, 15254-15257.	14.4	29
15	Lamellar, micro-phase separated blends of methyl cellulose and dendritic polyethylene glycol, POSS-PEG. Carbohydrate Polymers, 2016, 136, 19-29.	12.2	13
16	Descriptor-based methodology for statistical characterization and 3D reconstruction of microstructural materials. Computational Materials Science, 2014, 85, 206-216.	3.2	163
17	Computational microstructure characterization and reconstruction for stochastic multiscale material design. CAD Computer Aided Design, 2013, 45, 65-76.	2.8	129
18	Utilizing real and statistically reconstructed microstructures for the viscoelastic modeling of polymer nanocomposites. Composites Science and Technology, 2012, 72, 1725-1732.	8.8	43

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19	Epoxide Speciation and Functional Group Distribution in Graphene Oxide Paperâ€Like Materials. Advanced Functional Materials, 2012, 22, 3950-3957.	17.0	77
20	Interchangeable Stage and Probe Mechanisms for Microscale Universal Mechanical Tester. Journal of Microelectromechanical Systems, 2012, 21, 458-466.	2.0	7
21	Chemically Active Reduced Graphene Oxide with Tunable C/O Ratios. ACS Nano, 2011, 5, 4380-4391.	15.3	371
22	Graphene oxide windows for in situ environmental cell photoelectron spectroscopy. Nature Nanotechnology, 2011, 6, 651-657.	33.5	219
23	Drop-Casted Self-Assembling Graphene Oxide Membranes for Scanning Electron Microscopy on Wet and Dense Gaseous Samples. ACS Nano, 2011, 5, 10047-10054.	15.3	124
24	A Novel Way to Go Whole Cell in Patch-Clamp Experiments. IEEE Transactions on Biomedical Engineering, 2010, 57, 2764-2770.	3.3	4
25	Electrically Conductive â€œAlkylatedâ€•Graphene Paper via Chemical Reduction of Amineâ€Functionalized Graphene Oxide Paper. Advanced Materials, 2010, 22, 892-896.	24.5	602
26	Systematic Post-assembly Modification of Graphene Oxide Paper with Primary Alkylamines. Chemistry of Materials, 2010, 22, 4153-4157.	6.7	170
27	Controllable Patterning and CVD Growth of Isolated Carbon Nanotubes with Direct Parallel Writing of Catalyst Using Dipâ€Pen Nanolithography. Small, 2009, 5, 2523-2527.	11.6	25
28	Microsystem for nanofiber electromechanical measurements. Sensors and Actuators A: Physical, 2009, 155, 1-7.	4.5	35
29	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	228
30	Graphene Oxide Sheets Chemically Cross-Linked by Polyallylamine. Journal of Physical Chemistry C, 2009, 113, 15801-15804.	3.1	514
31	Characterization of Thermally Reduced Graphene Oxide by Imaging Ellipsometry. Journal of Physical Chemistry C, 2008, 112, 8499-8506.	3.1	213
32	Tunable Electrical Conductivity of Individual Graphene Oxide Sheets Reduced at â€œLowâ€•Temperatures. Nano Letters, 2008, 8, 4283-4287.	8.7	865
33	Polymerâ^'Graphite Nanocomposites:â€‰ Effective Dispersion and Major Property Enhancement via Solid-State Shear Pulverization. Macromolecules, 2008, 41, 1905-1908.	5.0	283
34	RIPENING OF SILVER NANOPARTICLES ON CARBON NANOTUBES. Nano, 2007, 02, 149-156.	1.5	27
35	Simple Approach for High-Contrast Optical Imaging and Characterization of Graphene-Based Sheets. Nano Letters, 2007, 7, 3569-3575.	8.7	326
36	Grapheneâ^'Silica Composite Thin Films as Transparent Conductors. Nano Letters, 2007, 7, 1888-1892.	8.7	828

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37	Electrostatic-Force-Directed Assembly of Ag Nanocrystals onto Vertically Aligned Carbon Nanotubes. Journal of Physical Chemistry C, 2007, 111, 17919-17922.	3.1	33
38	Synthesis of graphene-based nanosheets via chemical reduction of exfoliated graphite oxide. Carbon, 2007, 45, 1558-1565.	10.7	13,319
39	In situ mechanical testing of templated carbon nanotubes. Review of Scientific Instruments, 2006, 77, 125101.	1.5	31
40	Realization of nanoscale resolution with a micromachined thermally actuated testing stage. Review of Scientific Instruments, 2004, 75, 2154-2162.	1.5	50
41	Crystalline Boron Nanoribbons:â€‰ Synthesis and Characterization. Nano Letters, 2004, 4, 963-968.	8.7	227
42	Mechanics of a Carbon Nanocoil. Nano Letters, 2003, 3, 1299-1304.	8.7	344
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