Valeria Nicolosi

List of Publications by Year in Descending Order

162 papers	30,800 citations	57 h-index	169 g-index
169 ext. papers	34,967 ext. citations	11.4 avg, IF	6.94 L-index

#	Paper	IF	Citations
162	One-Step Grown Carbonaceous Germanium Nanowires and Their Application as Highly Efficient Lithium-Ion Battery Anodes.. *ACS Applied Energy Materials*, **2022**, 5, 1922-1932	6.1	0
161	Charged Domain Wall and Polar Vortex Topologies in a Room-Temperature Magnetoelectric Multiferroic Thin Film.. *ACS Applied Materials & Interfaces*, **2022**,	9.5	1
160	Silver nanocolloid generation using dynamic Laser Ablation Synthesis in Solution system and drop-casting. *Nano Structures Nano Objects*, **2022**, 29, 100841	5.6	2
159	Interfacial Engineered Vanadium Oxide Nanoheterostructures Synchronizing High-Energy and Long-Term Potassium-Ion Storage.. *ACS Nano*, **2022**,	16.7	3
158	Quantifying the Effect of Separator Thickness on Rate Performance in Lithium-Ion Batteries. *Journal of the Electrochemical Society*, **2022**, 169, 030503	3.9	3
157	Laser-powder bed fusion of silicon carbide reinforced 316L stainless steel using a sinusoidal laser scanning strategy. *Journal of Materials Research and Technology*, **2022**,	5.5	2
156	Liquid phase exfoliation of nonlayered non-van der Waals iron trifluoride (FeF3) into 2D-platelets for high-capacity lithium storing cathodes. *FlatChem*, **2022**, 33, 100360	5.1	4
155	The Potential of MXene Materials as a Component in the Catalyst Layer for the Oxygen Evolution Reaction. *Current Opinion in Electrochemistry*, **2022**, 101021	7.2	0
154	Laser-powder bed fusion in-process dispersion of reinforcing ceramic nanoparticles onto powder beds via colloid nebulisation. *Materials Chemistry and Physics*, **2022**, 287, 126245	4.4	0
153	Additive Manufacturing of Ti C MXene-Functionalized Conductive Polymer Hydrogels for Electromagnetic-Interference Shielding. *Advanced Materials*, **2021**, e2106253	24	19
152	Temperature influence on Ti3C2Tx lines printed by aerosol jet printing. *Sensors and Actuators A: Physical*, **2021**, 332, 113185	3.9	1
151	2D nanosheets from fools gold by LPE: High performance lithium-ion battery anodes made from stone. *FlatChem*, **2021**, 30, 100295	5.1	4
150	MXene materials based printed flexible devices for healthcare, biomedical and energy storage applications. *Materials Today*, **2021**, 43, 99-131	21.8	29
149	TEM and EELS characterization of Ni-Fe layered double hydroxide decompositions caused by electron beam irradiation. *Npj 2D Materials and Applications*, **2021**, 5,	8.8	5
148	One-Dimensional (1D) Nanostructured Materials for Energy Applications. *Materials*, **2021**, 14,	3.5	8
147	Inclusion of 2D Transition Metal Dichalcogenides in Perovskite Inks and Their Influence on Solar Cell Performance. *Nanomaterials*, **2021**, 11,	5.4	3
146	Extending the Cyclability of Alkaline Zinc-Air Batteries: Synergistic Roles of Li and K Ions in Electrodics. *ACS Applied Materials & Interfaces*, **2021**, 13, 33112-33122	9.5	2

145	Characterisation and Defect Analysis of 2D Layered Ternary Chalcogenides. *Microscopy and Microanalysis*, **2021**, 27, 642-643	0.5	
144	Understanding Degradation Processes in MXene Anodes by In-situ Liquid Cell STEM. *Microscopy and Microanalysis*, **2021**, 27, 1976-1977	0.5	
143	Liquid Exfoliated SnP3 Nanosheets for Very High Areal Capacity Lithium-Ion Batteries. *Advanced Energy Materials*, **2021**, 11, 2002364	21.8	17
142	Multifunctional TiCT MXene Composite Hydrogels with Strain Sensitivity toward Absorption-Dominated Electromagnetic-Interference Shielding. *ACS Nano*, **2021**, 15, 1465-1474	16.7	60
141	Covalently interconnected transition metal dichalcogenide networks via defect engineering for high-performance electronic devices. *Nature Nanotechnology*, **2021**, 16, 592-598	28.7	22
140	Solvent engineered synthesis of layered SnO for high-performance anodes. *Npj 2D Materials and Applications*, **2021**, 5,	8.8	4
139	Postsynthetic treatment of nickel–iron layered double hydroxides for the optimum catalysis of the oxygen evolution reaction. *Npj 2D Materials and Applications*, **2021**, 5,	8.8	2
138	Oxygen evolution catalysts under proton exchange membrane conditions in a conventional three electrode cell vs. electrolyser device: a comparison study and a 3D-printed electrolyser for academic labs. *Journal of Materials Chemistry A*, **2021**, 9, 9113-9123	13	9
137	Transition metal nitrides for electrochemical energy applications. *Chemical Society Reviews*, **2021**, 50, 1354-1390	58.5	207
136	Charge transport mechanisms in inkjet-printed thin-film transistors based on two-dimensional materials. *Nature Electronics*, **2021**, 4, 893-905	28.4	13
135	Extra lithium-ion storage capacity enabled by liquid-phase exfoliated indium selenide nanosheets conductive network. *Energy and Environmental Science*, **2020**, 13, 2124-2133	35.4	20
134	3D MXene Architectures for Efficient Energy Storage and Conversion. *Advanced Functional Materials*, **2020**, 30, 2000842	15.6	132
133	All-pseudocapacitive asymmetric MXene-carbon-conducting polymer supercapacitors. *Nano Energy*, **2020**, 75, 104971	17.1	60
132	Using chronoamperometry to rapidly measure and quantitatively analyse rate-performance in battery electrodes. *Journal of Power Sources*, **2020**, 468, 228220	8.9	9
131	0D-1D Hybrid Silicon Nanocomposite as Lithium-Ion Batteries Anodes. *Nanomaterials*, **2020**, 10,	5.4	4
130	Two-Photon Absorption in Monolayer MXenes. *Advanced Optical Materials*, **2020**, 8, 1902021	8.1	26
129	Nano-particle mediated M2 macrophage polarization enhances bone formation and MSC osteogenesis in an IL-10 dependent manner. *Biomaterials*, **2020**, 239, 119833	15.6	83
128	Quantifying the Dependence of Battery Rate Performance on Electrode Thickness. *ACS Applied Energy Materials*, **2020**, 3, 10154-10163	6.1	8

127	Quantifying the Effect of Electronic Conductivity on the Rate Performance of Nanocomposite Battery Electrodes. *ACS Applied Energy Materials*, **2020**, 3, 2966-2974	6.1	34
126	Improving stability of organometallic-halide perovskite solar cells using exfoliation two-dimensional molybdenum chalcogenides. *Npj 2D Materials and Applications*, **2020**, 4,	8.8	17
125	Production of Quasi-2D Platelets of Nonlayered Iron Pyrite (FeS) by Liquid-Phase Exfoliation for High Performance Battery Electrodes. *ACS Nano*, **2020**, 14, 13418-13432	16.7	20
124	Layered Double Hydroxide as a Potent Non-viral Vector for Nucleic Acid Delivery Using Gene-Activated Scaffolds for Tissue Regeneration Applications. *Pharmaceutics*, **2020**, 12,	6.4	9
123	Advanced materials of printed wearables for physiological parameter monitoring. *Materials Today*, **2020**, 32, 147-177	21.8	59
122	Collagen scaffolds functionalised with copper-eluting bioactive glass reduce infection and enhance osteogenesis and angiogenesis both in vitro and in vivo. *Biomaterials*, **2019**, 197, 405-416	15.6	87
121	High areal capacity battery electrodes enabled by segregated nanotube networks. *Nature Energy*, **2019**, 4, 560-567	62.3	153
120	High mobility solution processed MoS2 thin film transistors. *Solid-State Electronics*, **2019**, 158, 75-84	1.7	11
119	Quantifying the factors limiting rate□performance in battery electrodes. *Nature Communications*, **2019**, 10, 1933	17.4	114
118	Additive-free MXene inks and direct printing of micro-supercapacitors. *Nature Communications*, **2019**, 10, 1795	17.4	407
117	Ionic liquid pre-intercalated MXene films for ionogel-based flexible micro-supercapacitors with high volumetric energy density. *Journal of Materials Chemistry A*, **2019**, 7, 9478-9485	13	74
116	Liquid phase exfoliation of MoO2 nanosheets for lithium ion battery applications. *Nanoscale Advances*, **2019**, 1, 1560-1570	5.1	29
115	Silanization of Silica Nanoparticles and Their Processing as Nanostructured Micro-Raspberry Powders□A Route to Control the Mechanical Properties of Isoprene Rubber Composites. *Polymer Composites*, **2019**, 40, E732	3	6
114	Synthesis of centimeter-size free-standing perovskite nanosheets from single-crystal lead bromide for optoelectronic devices. *Scientific Reports*, **2019**, 9, 11738	4.9	7
113	Sonochemical edge functionalisation of molybdenum disulfide. *Nanoscale*, **2019**, 11, 15550-15560	7.7	2
112	Self-Assembly of Atomically Thin Chiral Copper Heterostructures Templated by Black Phosphorus. *Advanced Functional Materials*, **2019**, 29, 1903120	15.6	7
111	Quantifying the Trade-Off between Absolute Capacity and Rate Performance in Battery Electrodes. *Advanced Energy Materials*, **2019**, 9, 1901359	21.8	28
110	The rationale and emergence of electroconductive biomaterial scaffolds in cardiac tissue engineering. *APL Bioengineering*, **2019**, 3, 041501	6.6	47

109	High capacity silicon anodes enabled by MXene viscous aqueous ink. *Nature Communications*, **2019**, 10, 849	17.4	174
108	Graphene and MXene-based transparent conductive electrodes and supercapacitors. *Energy Storage Materials*, **2019**, 16, 102-125	19.4	217
107	Structural transformation of layered double hydroxides: an in situ TEM analysis. *Npj 2D Materials and Applications*, **2018**, 2,	8.8	32
106	Microelectronics: Stamping of Flexible, Coplanar Micro-Supercapacitors Using MXene Inks (Adv. Funct. Mater. 9/2018). *Advanced Functional Materials*, **2018**, 28, 1870059	15.6	5
105	Oxide-mediated recovery of field-effect mobility in plasma-treated MoS. *Science Advances*, **2018**, 4, eaao5031	14.1	64
104	Solution processed thin film transistor from liquid phase exfoliated MoS 2 flakes. *Solid-State Electronics*, **2018**, 141, 58-64	1.7	18
103	Stamping of Flexible, Coplanar Micro-Supercapacitors Using MXene Inks. *Advanced Functional Materials*, **2018**, 28, 1705506	15.6	322
102	Novel in-situ lamella fabrication technique for in-situ TEM. *Ultramicroscopy*, **2018**, 190, 21-29	3.1	7
101	Low-temperature synthesis and investigation into the formation mechanism of high quality Ni-Fe layered double hydroxides hexagonal platelets. *Scientific Reports*, **2018**, 8, 4179	4.9	31
100	Percolating Metallic Structures Templated on Laser-Deposited Carbon Nanofoams Derived from Graphene Oxide: Applications in Humidity Sensing. *ACS Applied Nano Materials*, **2018**, 1, 1828-1835	5.6	11
99	TiO-Based Nanomaterials for the Production of Hydrogen and the Development of Lithium-Ion Batteries. *Journal of Physical Chemistry B*, **2018**, 122, 972-983	3.4	14
98	Orthopaedic implant materials drive M1 macrophage polarization in a spleen tyrosine kinase- and mitogen-activated protein kinase-dependent manner. *Acta Biomaterialia*, **2018**, 65, 426-435	10.8	23
97	Influence of temperature on morphological and optical properties of MoS2 layers as grown based on solution processed precursor. *Thin Solid Films*, **2018**, 645, 38-44	2.2	9
96	Characterizing the Calcination Behaviors of Ni-Fe Layered Double Hydroxide Materials via In-situ Transmission Electron Microscopy. *Microscopy and Microanalysis*, **2018**, 24, 1878-1879	0.5	
95	pH-Responsive Saloplastics Based on Weak Polyelectrolytes: From Molecular Processes to Material Scale Properties. *Macromolecules*, **2018**, 51, 4424-4434	5.5	12
94	Enhanced thermoelectric performance of Bi□bTe/Sb2O3 nanocomposites by energy filtering effect. *Journal of Materials Chemistry A*, **2018**, 6, 21341-21349	13	83
93	Synthesis and Advanced Characterisation of Layered Platelets by Self-assembly of Long-chain Amines. *Microscopy and Microanalysis*, **2018**, 24, 1566-1567	0.5	
92	Colloidal Core□atellite Supraparticles via Preprogramed Burst of Nanostructured Micro-Raspberry Particles. *Particle and Particle Systems Characterization*, **2018**, 35, 1800096	3.1	3

91	In Situ Formed Protective Barrier Enabled by Sulfur@Titanium Carbide (MXene) Ink for Achieving High-Capacity, Long Lifetime Li-S Batteries. *Advanced Science*, **2018**, 5, 1800502	13.6	147
90	Quantifying the Role of Nanotubes in Nano:Nano Composite Supercapacitor Electrodes. *Advanced Energy Materials*, **2018**, 8, 1702364	21.8	25
89	Novel cold spray for fabricating graphene-reinforced metal matrix composites. *Materials Letters*, **2017**, 196, 172-175	3.3	24
88	Probing the local nature of excitons and plasmons in few-layer MoS2. *Npj 2D Materials and Applications*, **2017**, 1,	8.8	41
87	Oxidation Stability of Colloidal Two-Dimensional Titanium Carbides (MXenes). *Chemistry of Materials*, **2017**, 29, 4848-4856	9.6	652
86	All-printed thin-film transistors from networks of liquid-exfoliated nanosheets. *Science*, **2017**, 356, 69-73	33.3	301
85	Improving the performance of porous nickel foam for water oxidation using hydrothermally prepared Ni and Fe metal oxides. *Sustainable Energy and Fuels*, **2017**, 1, 207-216	5.8	28
84	Lithium Titanate/Carbon Nanotubes Composites Processed by Ultrasound Irradiation as Anodes for Lithium Ion Batteries. *Scientific Reports*, **2017**, 7, 7614	4.9	12
83	Transparent, Flexible, and Conductive 2D Titanium Carbide (MXene) Films with High Volumetric Capacitance. *Advanced Materials*, **2017**, 29, 1702678	24	538
82	Synthesis of layered platelets by self-assembly of rhenium-based clusters directed by long-chain amines. *Npj 2D Materials and Applications*, **2017**, 1,	8.8	3
81	Enabling Flexible Heterostructures for Li-Ion Battery Anodes Based on Nanotube and Liquid-Phase Exfoliated 2D Gallium Chalcogenide Nanosheet Colloidal Solutions. *Small*, **2017**, 13, 1701677	11	57
80	An in situ and ex situ TEM study into the oxidation of titanium (IV) sulphide. *Npj 2D Materials and Applications*, **2017**, 1,	8.8	15
79	Valence band modification of Cr2O3 by Ni-doping: creating a high figure of merit p-type TCO. *Journal of Materials Chemistry C*, **2017**, 5, 12610-12618	7.1	24
78	In-situ TEM Analyses over FIB Lamellae - Investigating High Temperature Conversion of Solution Processed Mo-precursor to MoS2 Semiconductor Films.. *Microscopy and Microanalysis*, **2017**, 23, 258-259	0.5	
77	Rhenium-doped MoS2 films. *Applied Physics Letters*, **2017**, 111, 203101	3.4	31
76	Direct atomic scale determination of magnetic ion partition in a room temperature multiferroic material. *Scientific Reports*, **2017**, 7, 1737	4.9	24
75	Liquid exfoliation of interlayer spacing-tunable 2D vanadium oxide nanosheets: High capacity and rate handling Li-ion battery cathodes. *Nano Energy*, **2017**, 39, 151-161	17.1	91
74	An investigation of the energy storage properties of a 2D □MoO 3 -SWCNTs composite films. *2D Materials*, **2017**, 4, 015005	5.9	15

73	Highly flexible and transparent solid-state supercapacitors based on RuO2/PEDOT:PSS conductive ultrathin films. *Nano Energy*, **2016**, 28, 495-505	17.1	197
72	Pushing up the magnetisation values for iron oxide nanoparticles via zinc doping: X-ray studies on the particle's sub-nano structure of different synthesis routes. *Physical Chemistry Chemical Physics*, **2016**, 18, 25221-25229	3.6	21
71	Hollow Superparamagnetic Microballoons from Lifelike, Self-Directed Pickering Emulsions Based on Patchy Nanoparticles. *ACS Nano*, **2016**, 10, 10347-10356	16.7	5
70	Layered Orthorhombic Nb2O5@Nb4C3Tx and TiO2@Ti3C2Tx Hierarchical Composites for High Performance Li-ion Batteries. *Advanced Functional Materials*, **2016**, 26, 4143-4151	15.6	244
69	Production of Ni(OH)2 nanosheets by liquid phase exfoliation: from optical properties to electrochemical applications. *Journal of Materials Chemistry A*, **2016**, 4, 11046-11059	13	60
68	A comparison of catabolic pathways induced in primary macrophages by pristine single walled carbon nanotubes and pristine graphene. *RSC Advances*, **2016**, 6, 65299-65310	3.7	12
67	A study of the charge storage properties of a MoSe2 nanoplatelets/SWCNTs electrode in a Li-ion based electrolyte. *Electrochimica Acta*, **2016**, 192, 1-7	6.7	33
66	A Commercial Conducting Polymer as Both Binder and Conductive Additive for Silicon Nanoparticle-Based Lithium-Ion Battery Negative Electrodes. *ACS Nano*, **2016**, 10, 3702-13	16.7	320
65	Electronic structure of purified Mo6S(9□)Ix nanowires studied by X-ray spectroscopy. *Journal of Electron Spectroscopy and Related Phenomena*, **2016**, 207, 29-33	1.7	
64	Exciton and Plasmon Mapping at the Nanoscale **2016**, 415-416		
63	Structural characterisation of nanomaterials incorporated into bioengineered samples: An electron microscopy approach **2016**, 61-62		
62	The oxidation of gallium (II) sulphide **2016**, 528-529		
61	EELS probing of lithium based 2-D battery compounds processed by liquid phase exfoliation. *Nano Energy*, **2016**, 30, 18-26	17.1	6
60	A 2D graphene-manganese oxide nanosheet hybrid synthesized by a single step liquid-phase co-exfoliation method for supercapacitor applications. *Electrochimica Acta*, **2015**, 174, 696-705	6.7	39
59	Basal-Plane Functionalization of Chemically Exfoliated Molybdenum Disulfide by Diazonium Salts. *ACS Nano*, **2015**, 9, 6018-30	16.7	232
58	Preparation of Gallium Sulfide Nanosheets by Liquid Exfoliation and Their Application As Hydrogen Evolution Catalysts. *Chemistry of Materials*, **2015**, 27, 3483-3493	9.6	144
57	Liquid exfoliation of solvent-stabilized few-layer black phosphorus for applications beyond electronics. *Nature Communications*, **2015**, 6, 8563	17.4	764
56	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. *Nanoscale*, **2015**, 7, 4598-810	7.7	2015

55	Study Using Low-loss EELS to Compare Properties of TMDs Produced by Mechanical and Liquid Phase Exfoliation. *Microscopy and Microanalysis*, **2015**, 21, 1475-1476	0.5	2
54	Electronic Properties and Chemical Reactivity of TiS2 Nanoflakes. *Journal of Physical Chemistry C*, **2015**, 119, 15707-15715	3.8	37
53	Manganese oxide nanosheets and a 2D hybrid of graphene□manganese oxide nanosheets synthesized by liquid-phase exfoliation. *2D Materials*, **2015**, 2, 025005	5.9	22
52	Scalable production of large quantities of defect-free few-layer graphene by shear exfoliation in liquids. *Nature Materials*, **2014**, 13, 624-30	27	1627
51	Double-wall carbon nanotubes for wide-band, ultrafast pulse generation. *ACS Nano*, **2014**, 8, 4836-47	16.7	54
50	A safe-by-design approach to the development of gold nanoboxes as carriers for internalization into cancer cells. *Biomaterials*, **2014**, 35, 2543-57	15.6	33
49	Production of Molybdenum Trioxide Nanosheets by Liquid Exfoliation and Their Application in High-Performance Supercapacitors. *Chemistry of Materials*, **2014**, 26, 1751-1763	9.6	231
48	Edge and confinement effects allow in situ measurement of size and thickness of liquid-exfoliated nanosheets. *Nature Communications*, **2014**, 5, 4576	17.4	350
47	Effect of percolation on the capacitance of supercapacitor electrodes prepared from composites of manganese dioxide nanoplatelets and carbon nanotubes. *ACS Nano*, **2014**, 8, 9567-79	16.7	82
46	Nitrogen-doped reduced graphene oxide electrodes for electrochemical supercapacitors. *Physical Chemistry Chemical Physics*, **2014**, 16, 2280-4	3.6	70
45	Unusual stacking variations in liquid-phase exfoliated transition metal dichalcogenides. *ACS Nano*, **2014**, 8, 3690-9	16.7	36
44	Atomic scale dynamics of a solid state chemical reaction directly determined by annular dark-field electron microscopy. *Scientific Reports*, **2014**, 4, 7555	4.9	20
43	Liquid Exfoliation of Layered Materials. *Science*, **2013**, 340, 1226419-1226419	33.3	2604
42	Scaleable ultra-thin and high power density graphene electrochemical capacitor electrodes manufactured by aqueous exfoliation and spray deposition. *Carbon*, **2013**, 52, 337-346	10.4	45
41	Impurity induced non-bulk stacking in chemically exfoliated h-BN nanosheets. *Nanoscale*, **2013**, 5, 2290-4	7.7	18
40	An investigation of nanostructured thin film □MoO3 based supercapacitor electrodes in an aqueous electrolyte. *Electrochimica Acta*, **2013**, 91, 253-260	6.7	140
39	High quality dispersions of hexabenzocoronene in organic solvents. *Journal of the American Chemical Society*, **2012**, 134, 12168-79	16.4	43
38	Single-step exfoliation and chemical functionalisation of graphene and hBN nanosheets with nickel phthalocyanine. *Journal of Materials Chemistry*, **2012**, 22, 23246		14

37	Covalently functionalized hexagonal boron nitride nanosheets by nitrene addition. *Chemistry - A European Journal*, **2012**, 18, 10808-12	4.8	64
36	Two-dimensional nanosheets produced by liquid exfoliation of layered materials. *Science*, **2011**, 331, 568-71	33.3	5221
35	Controlled radiation damage and edge structures in boron nitride membranes. *ACS Nano*, **2011**, 5, 3977-86	8.7	28
34	Large-scale exfoliation of inorganic layered compounds in aqueous surfactant solutions. *Advanced Materials*, **2011**, 23, 3944-8	24	888
33	Atom-by-atom structural and chemical analysis by annular dark-field electron microscopy. *Nature*, **2010**, 464, 571-4	50.4	958
32	Brownian motion of graphene. *ACS Nano*, **2010**, 4, 7515-23	16.7	160
31	Bonding States in Molecular-Scale MoSI Nanowire□old Nanoparticle Networks. *Journal of Physical Chemistry Letters*, **2010**, 1, 393-397	6.4	5
30	Edge-carboxylated graphene nanoflakes from nitric acid oxidised arc-discharge material. *Journal of Materials Chemistry*, **2010**, 20, 314-319		38
29	A facile route to self-assembled Hg//MoSI nanowire networks. *New Journal of Chemistry*, **2010**, 34, 2241	3.6	
28	Gas phase controlled deposition of high quality large-area graphene films. *Chemical Communications*, **2010**, 46, 1422-4	5.8	41
27	Processing and characterisation of Mo6S2I8 nanowires. *Physical Chemistry Chemical Physics*, **2010**, 12, 433-41	3.6	3
26	A stable, wideband tunable, near transform-limited, graphene-mode-locked, ultrafast laser. *Nano Research*, **2010**, 3, 653-660	10	295
25	Gentle STEM: ADF imaging and EELS at low primary energies. *Ultramicroscopy*, **2010**, 110, 935-945	3.1	157
24	Liquid phase production of graphene by exfoliation of graphite in surfactant/water solutions. *Journal of the American Chemical Society*, **2009**, 131, 3611-20	16.4	1821
23	High-yield production of graphene by liquid-phase exfoliation of graphite. *Nature Nanotechnology*, **2008**, 3, 563-8	28.7	4715
22	Comparison of carbon nanotubes and nanodisks as percolative fillers in electrically conductive composites. *Scripta Materialia*, **2008**, 58, 69-72	5.6	49
21	Quantitative Evaluation of Surfactant-stabilized Single-walled Carbon Nanotubes: Dispersion Quality and Its Correlation with Zeta Potential. *Journal of Physical Chemistry C*, **2008**, 112, 10692-10699	3.8	315
20	Large Populations of Individual Nanotubes in Surfactant-Based Dispersions without the Need for Ultracentrifugation. *Journal of Physical Chemistry C*, **2008**, 112, 972-977	3.8	68

19	Ordered DNA wrapping switches on luminescence in single-walled nanotube dispersions. *Journal of the American Chemical Society*, **2008**, 130, 12734-44	16.4	107
18	High Quality Dispersions of Functionalized Single Walled Nanotubes at High Concentration. *Journal of Physical Chemistry C*, **2008**, 112, 3519-3524	3.8	55
17	Spontaneous exfoliation of single-walled carbon nanotubes dispersed using a designed amphiphilic peptide. *Biomacromolecules*, **2008**, 9, 598-602	6.9	29
16	Efficient dispersion and exfoliation of single-walled nanotubes in 3-aminopropyltriethoxysilane and its derivatives. *Nanotechnology*, **2008**, 19, 485702	3.4	6
15	The relationship between network morphology and conductivity in nanotube films. *Journal of Applied Physics*, **2008**, 104, 044302	2.5	106
14	Towards Solutions of Single-Walled Carbon Nanotubes in Common Solvents. *Advanced Materials*, **2008**, 20, 1876-1881	24	299
13	Spectroscopic evidence of a core□shell structure in the earlier formation stages of Au□Ag nanoparticles by pulsed laser ablation in water. *Chemical Physics Letters*, **2008**, 457, 386-390	2.5	59
12	Fabrication and Characterization of Silver/Polyaniline Composite Nanowires in Porous Anodic Alumina. *Chemistry of Materials*, **2007**, 19, 4252-4258	9.6	110
11	Exfoliation in ecstasy: liquid crystal formation and concentration-dependent debundling observed for single-wall nanotubes dispersed in the liquid drug □butyrolactone. *Nanotechnology*, **2007**, 18, 455705	3.4	43
10	Nonlinear optical response of Mo6S4.5I4.5 nanowires. *Chemical Physics Letters*, **2007**, 435, 109-113	2.5	15
9	Laser synthesis of Au/Ag colloidal nano-alloys: Optical properties, structure and composition. *Applied Surface Science*, **2007**, 254, 1007-1011	6.7	64
8	Dispersion and purification of Mo6S3I6 nanowires in organic solvents. *Journal of Applied Physics*, **2007**, 101, 014317	2.5	33
7	Spontaneous Debundling of Single-Walled Carbon Nanotubes in DNA-Based Dispersions. *Journal of Physical Chemistry C*, **2007**, 111, 66-74	3.8	89
6	Debundling of single-walled nanotubes by dilution: observation of large populations of individual nanotubes in amide solvent dispersions. *Journal of Physical Chemistry B*, **2006**, 110, 15708-18	3.4	302
5	Mo6S4.5I4.5Nanowires: Structure Studies by HRTEM and Aberration Corrected STEM. *Journal of Physics: Conference Series*, **2006**, 26, 260-263	0.3	2
4	Debundling by dilution: Observation of significant populations of individual MoSI nanowires in high concentration dispersions. *Chemical Physics Letters*, **2006**, 425, 89-93	2.5	27
3	Solubility of Mo6S4.5I4.5 nanowires in common solvents: a sedimentation study. *Journal of Physical Chemistry B*, **2005**, 109, 7124-33	3.4	102
2	Solubility of Mo6S4.5I4.5 nanowires. *Chemical Physics Letters*, **2005**, 401, 13-18	2.5	53

1 Two-dimensional material inks. *Nature Reviews Materials*, 73.3 11