

Valeria Nicolosi

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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	Two-dimensional nanosheets produced by liquid exfoliation of layered materials. <i>Science</i> , 2011 , 331, 568-71	33.3	5221
161	High-yield production of graphene by liquid-phase exfoliation of graphite. <i>Nature Nanotechnology</i> , 2008 , 3, 563-8	28.7	4715
160	Liquid Exfoliation of Layered Materials. <i>Science</i> , 2013 , 340, 1226419-1226419	33.3	2604
159	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. <i>Nanoscale</i> , 2015 , 7, 4598-810	7.7	2015
158	Liquid phase production of graphene by exfoliation of graphite in surfactant/water solutions. <i>Journal of the American Chemical Society</i> , 2009 , 131, 3611-20	16.4	1821
157	Scalable production of large quantities of defect-free few-layer graphene by shear exfoliation in liquids. <i>Nature Materials</i> , 2014 , 13, 624-30	27	1627
156	Atom-by-atom structural and chemical analysis by annular dark-field electron microscopy. <i>Nature</i> , 2010 , 464, 571-4	50.4	958
155	Large-scale exfoliation of inorganic layered compounds in aqueous surfactant solutions. <i>Advanced Materials</i> , 2011 , 23, 3944-8	24	888
154	Liquid exfoliation of solvent-stabilized few-layer black phosphorus for applications beyond electronics. <i>Nature Communications</i> , 2015 , 6, 8563	17.4	764
153	Oxidation Stability of Colloidal Two-Dimensional Titanium Carbides (MXenes). <i>Chemistry of Materials</i> , 2017 , 29, 4848-4856	9.6	652
152	Transparent, Flexible, and Conductive 2D Titanium Carbide (MXene) Films with High Volumetric Capacitance. <i>Advanced Materials</i> , 2017 , 29, 1702678	24	538
151	Additive-free MXene inks and direct printing of micro-supercapacitors. <i>Nature Communications</i> , 2019 , 10, 1795	17.4	407
150	Edge and confinement effects allow in situ measurement of size and thickness of liquid-exfoliated nanosheets. <i>Nature Communications</i> , 2014 , 5, 4576	17.4	350
149	Stamping of Flexible, Coplanar Micro-Supercapacitors Using MXene Inks. <i>Advanced Functional Materials</i> , 2018 , 28, 1705506	15.6	322
148	A Commercial Conducting Polymer as Both Binder and Conductive Additive for Silicon Nanoparticle-Based Lithium-Ion Battery Negative Electrodes. <i>ACS Nano</i> , 2016 , 10, 3702-13	16.7	320
147	Quantitative Evaluation of Surfactant-stabilized Single-walled Carbon Nanotubes: Dispersion Quality and Its Correlation with Zeta Potential. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 10692-10699	3.8	315
146	Debundling of single-walled nanotubes by dilution: observation of large populations of individual nanotubes in amide solvent dispersions. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 15708-18	3.4	302

145	All-printed thin-film transistors from networks of liquid-exfoliated nanosheets. <i>Science</i> , 2017 , 356, 69-73	33.3	301
144	Towards Solutions of Single-Walled Carbon Nanotubes in Common Solvents. <i>Advanced Materials</i> , 2008 , 20, 1876-1881	24	299
143	A stable, wideband tunable, near transform-limited, graphene-mode-locked, ultrafast laser. <i>Nano Research</i> , 2010 , 3, 653-660	10	295
142	Layered Orthorhombic Nb ₂ O ₅ @Nb ₄ C ₃ T _x and TiO ₂ @Ti ₃ C ₂ T _x Hierarchical Composites for High Performance Li-ion Batteries. <i>Advanced Functional Materials</i> , 2016 , 26, 4143-4151	15.6	244
141	Basal-Plane Functionalization of Chemically Exfoliated Molybdenum Disulfide by Diazonium Salts. <i>ACS Nano</i> , 2015 , 9, 6018-30	16.7	232
140	Production of Molybdenum Trioxide Nanosheets by Liquid Exfoliation and Their Application in High-Performance Supercapacitors. <i>Chemistry of Materials</i> , 2014 , 26, 1751-1763	9.6	231
139	Graphene and MXene-based transparent conductive electrodes and supercapacitors. <i>Energy Storage Materials</i> , 2019 , 16, 102-125	19.4	217
138	Transition metal nitrides for electrochemical energy applications. <i>Chemical Society Reviews</i> , 2021 , 50, 1354-1390	58.5	207
137	Highly flexible and transparent solid-state supercapacitors based on RuO ₂ /PEDOT:PSS conductive ultrathin films. <i>Nano Energy</i> , 2016 , 28, 495-505	17.1	197
136	High capacity silicon anodes enabled by MXene viscous aqueous ink. <i>Nature Communications</i> , 2019 , 10, 849	17.4	174
135	Brownian motion of graphene. <i>ACS Nano</i> , 2010 , 4, 7515-23	16.7	160
134	Gentle STEM: ADF imaging and EELS at low primary energies. <i>Ultramicroscopy</i> , 2010 , 110, 935-945	3.1	157
133	High areal capacity battery electrodes enabled by segregated nanotube networks. <i>Nature Energy</i> , 2019 , 4, 560-567	62.3	153
132	In Situ Formed Protective Barrier Enabled by Sulfur@Titanium Carbide (MXene) Ink for Achieving High-Capacity, Long Lifetime Li-S Batteries. <i>Advanced Science</i> , 2018 , 5, 1800502	13.6	147
131	Preparation of Gallium Sulfide Nanosheets by Liquid Exfoliation and Their Application As Hydrogen Evolution Catalysts. <i>Chemistry of Materials</i> , 2015 , 27, 3483-3493	9.6	144
130	An investigation of nanostructured thin film HfMoO ₃ based supercapacitor electrodes in an aqueous electrolyte. <i>Electrochimica Acta</i> , 2013 , 91, 253-260	6.7	140
129	3D MXene Architectures for Efficient Energy Storage and Conversion. <i>Advanced Functional Materials</i> , 2020 , 30, 2000842	15.6	132
128	Quantifying the factors limiting rate performance in battery electrodes. <i>Nature Communications</i> , 2019 , 10, 1933	17.4	114

127	Fabrication and Characterization of Silver/Polyaniline Composite Nanowires in Porous Anodic Alumina. <i>Chemistry of Materials</i> , 2007 , 19, 4252-4258	9.6	110
126	Ordered DNA wrapping switches on luminescence in single-walled nanotube dispersions. <i>Journal of the American Chemical Society</i> , 2008 , 130, 12734-44	16.4	107
125	The relationship between network morphology and conductivity in nanotube films. <i>Journal of Applied Physics</i> , 2008 , 104, 044302	2.5	106
124	Solubility of MoS ₂ nanowires in common solvents: a sedimentation study. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 7124-33	3.4	102
123	Liquid exfoliation of interlayer spacing-tunable 2D vanadium oxide nanosheets: High capacity and rate handling Li-ion battery cathodes. <i>Nano Energy</i> , 2017 , 39, 151-161	17.1	91
122	Spontaneous Debundling of Single-Walled Carbon Nanotubes in DNA-Based Dispersions. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 66-74	3.8	89
121	Collagen scaffolds functionalised with copper-eluting bioactive glass reduce infection and enhance osteogenesis and angiogenesis both in vitro and in vivo. <i>Biomaterials</i> , 2019 , 197, 405-416	15.6	87
120	Nano-particle mediated M2 macrophage polarization enhances bone formation and MSC osteogenesis in an IL-10 dependent manner. <i>Biomaterials</i> , 2020 , 239, 119833	15.6	83
119	Enhanced thermoelectric performance of Bi ₂ Te/Sb ₂ O ₃ nanocomposites by energy filtering effect. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 21341-21349	13	83
118	Effect of percolation on the capacitance of supercapacitor electrodes prepared from composites of manganese dioxide nanoplatelets and carbon nanotubes. <i>ACS Nano</i> , 2014 , 8, 9567-79	16.7	82
117	Ionic liquid pre-intercalated MXene films for ionogel-based flexible micro-supercapacitors with high volumetric energy density. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 9478-9485	13	74
116	Nitrogen-doped reduced graphene oxide electrodes for electrochemical supercapacitors. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 2280-4	3.6	70
115	Large Populations of Individual Nanotubes in Surfactant-Based Dispersions without the Need for Ultracentrifugation. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 972-977	3.8	68
114	Oxide-mediated recovery of field-effect mobility in plasma-treated MoS ₂ . <i>Science Advances</i> , 2018 , 4, eaar5031	10.31	64
113	Covalently functionalized hexagonal boron nitride nanosheets by nitrene addition. <i>Chemistry - A European Journal</i> , 2012 , 18, 10808-12	4.8	64
112	Laser synthesis of Au/Ag colloidal nano-alloys: Optical properties, structure and composition. <i>Applied Surface Science</i> , 2007 , 254, 1007-1011	6.7	64
111	All-pseudocapacitive asymmetric MXene-carbon-conducting polymer supercapacitors. <i>Nano Energy</i> , 2020 , 75, 104971	17.1	60
110	Production of Ni(OH) ₂ nanosheets by liquid phase exfoliation: from optical properties to electrochemical applications. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 11046-11059	13	60

109	Multifunctional TiCT MXene Composite Hydrogels with Strain Sensitivity toward Absorption-Dominated Electromagnetic-Interference Shielding. <i>ACS Nano</i> , 2021 , 15, 1465-1474	16.7	60
108	Spectroscopic evidence of a core-shell structure in the earlier formation stages of AuAg nanoparticles by pulsed laser ablation in water. <i>Chemical Physics Letters</i> , 2008 , 457, 386-390	2.5	59
107	Advanced materials of printed wearables for physiological parameter monitoring. <i>Materials Today</i> , 2020 , 32, 147-177	21.8	59
106	Enabling Flexible Heterostructures for Li-Ion Battery Anodes Based on Nanotube and Liquid-Phase Exfoliated 2D Gallium Chalcogenide Nanosheet Colloidal Solutions. <i>Small</i> , 2017 , 13, 1701677	11	57
105	High Quality Dispersions of Functionalized Single Walled Nanotubes at High Concentration. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 3519-3524	3.8	55
104	Double-wall carbon nanotubes for wide-band, ultrafast pulse generation. <i>ACS Nano</i> , 2014 , 8, 4836-47	16.7	54
103	Solubility of MoS ₂ nanowires. <i>Chemical Physics Letters</i> , 2005 , 401, 13-18	2.5	53
102	Comparison of carbon nanotubes and nanodisks as percolative fillers in electrically conductive composites. <i>Scripta Materialia</i> , 2008 , 58, 69-72	5.6	49
101	The rationale and emergence of electroconductive biomaterial scaffolds in cardiac tissue engineering. <i>APL Bioengineering</i> , 2019 , 3, 041501	6.6	47
100	Scaleable ultra-thin and high power density graphene electrochemical capacitor electrodes manufactured by aqueous exfoliation and spray deposition. <i>Carbon</i> , 2013 , 52, 337-346	10.4	45
99	High quality dispersions of hexabenzocoronene in organic solvents. <i>Journal of the American Chemical Society</i> , 2012 , 134, 12168-79	16.4	43
98	Exfoliation in ecstasy: liquid crystal formation and concentration-dependent debundling observed for single-wall nanotubes dispersed in the liquid drug γ -butyrolactone. <i>Nanotechnology</i> , 2007 , 18, 455705 ^{3,4}		43
97	Probing the local nature of excitons and plasmons in few-layer MoS ₂ . <i>Npj 2D Materials and Applications</i> , 2017 , 1,	8.8	41
96	Gas phase controlled deposition of high quality large-area graphene films. <i>Chemical Communications</i> , 2010 , 46, 1422-4	5.8	41
95	A 2D graphene-manganese oxide nanosheet hybrid synthesized by a single step liquid-phase co-exfoliation method for supercapacitor applications. <i>Electrochimica Acta</i> , 2015 , 174, 696-705	6.7	39
94	Edge-carboxylated graphene nanoflakes from nitric acid oxidised arc-discharge material. <i>Journal of Materials Chemistry</i> , 2010 , 20, 314-319		38
93	Electronic Properties and Chemical Reactivity of TiS ₂ Nanoflakes. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 15707-15715	3.8	37
92	Unusual stacking variations in liquid-phase exfoliated transition metal dichalcogenides. <i>ACS Nano</i> , 2014 , 8, 3690-9	16.7	36

91	Quantifying the Effect of Electronic Conductivity on the Rate Performance of Nanocomposite Battery Electrodes. <i>ACS Applied Energy Materials</i> , 2020 , 3, 2966-2974	6.1	34
90	A study of the charge storage properties of a MoSe ₂ nanoplatelets/SWCNTs electrode in a Li-ion based electrolyte. <i>Electrochimica Acta</i> , 2016 , 192, 1-7	6.7	33
89	A safe-by-design approach to the development of gold nanoboxes as carriers for internalization into cancer cells. <i>Biomaterials</i> , 2014 , 35, 2543-57	15.6	33
88	Dispersion and purification of Mo ₆ S ₃ I ₆ nanowires in organic solvents. <i>Journal of Applied Physics</i> , 2007 , 101, 014317	2.5	33
87	Structural transformation of layered double hydroxides: an in situ TEM analysis. <i>Npj 2D Materials and Applications</i> , 2018 , 2,	8.8	32
86	Low-temperature synthesis and investigation into the formation mechanism of high quality Ni-Fe layered double hydroxides hexagonal platelets. <i>Scientific Reports</i> , 2018 , 8, 4179	4.9	31
85	Rhenium-doped MoS ₂ films. <i>Applied Physics Letters</i> , 2017 , 111, 203101	3.4	31
84	Liquid phase exfoliation of MoO ₂ nanosheets for lithium ion battery applications. <i>Nanoscale Advances</i> , 2019 , 1, 1560-1570	5.1	29
83	Spontaneous exfoliation of single-walled carbon nanotubes dispersed using a designed amphiphilic peptide. <i>Biomacromolecules</i> , 2008 , 9, 598-602	6.9	29
82	MXene materials based printed flexible devices for healthcare, biomedical and energy storage applications. <i>Materials Today</i> , 2021 , 43, 99-131	21.8	29
81	Improving the performance of porous nickel foam for water oxidation using hydrothermally prepared Ni and Fe metal oxides. <i>Sustainable Energy and Fuels</i> , 2017 , 1, 207-216	5.8	28
80	Quantifying the Trade-Off between Absolute Capacity and Rate Performance in Battery Electrodes. <i>Advanced Energy Materials</i> , 2019 , 9, 1901359	21.8	28
79	Controlled radiation damage and edge structures in boron nitride membranes. <i>ACS Nano</i> , 2011 , 5, 3977- 86.7	86.7	28
78	Debundling by dilution: Observation of significant populations of individual MoSI nanowires in high concentration dispersions. <i>Chemical Physics Letters</i> , 2006 , 425, 89-93	2.5	27
77	Two-Photon Absorption in Monolayer MXenes. <i>Advanced Optical Materials</i> , 2020 , 8, 1902021	8.1	26
76	Quantifying the Role of Nanotubes in Nano:Nano Composite Supercapacitor Electrodes. <i>Advanced Energy Materials</i> , 2018 , 8, 1702364	21.8	25
75	Novel cold spray for fabricating graphene-reinforced metal matrix composites. <i>Materials Letters</i> , 2017 , 196, 172-175	3.3	24
74	Valence band modification of Cr ₂ O ₃ by Ni-doping: creating a high figure of merit p-type TCO. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 12610-12618	7.1	24

73	Direct atomic scale determination of magnetic ion partition in a room temperature multiferroic material. <i>Scientific Reports</i> , 2017 , 7, 1737	4.9	24
72	Orthopaedic implant materials drive M1 macrophage polarization in a spleen tyrosine kinase- and mitogen-activated protein kinase-dependent manner. <i>Acta Biomaterialia</i> , 2018 , 65, 426-435	10.8	23
71	Manganese oxide nanosheets and a 2D hybrid of graphene/manganese oxide nanosheets synthesized by liquid-phase exfoliation. <i>2D Materials</i> , 2015 , 2, 025005	5.9	22
70	Covalently interconnected transition metal dichalcogenide networks via defect engineering for high-performance electronic devices. <i>Nature Nanotechnology</i> , 2021 , 16, 592-598	28.7	22
69	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. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 25221-25229	3.6	21
68	Extra lithium-ion storage capacity enabled by liquid-phase exfoliated indium selenide nanosheets conductive network. <i>Energy and Environmental Science</i> , 2020 , 13, 2124-2133	35.4	20
67	Atomic scale dynamics of a solid state chemical reaction directly determined by annular dark-field electron microscopy. <i>Scientific Reports</i> , 2014 , 4, 7555	4.9	20
66	Production of Quasi-2D Platelets of Nonlayered Iron Pyrite (FeS) by Liquid-Phase Exfoliation for High Performance Battery Electrodes. <i>ACS Nano</i> , 2020 , 14, 13418-13432	16.7	20
65	Additive Manufacturing of Ti C MXene-Functionalized Conductive Polymer Hydrogels for Electromagnetic-Interference Shielding. <i>Advanced Materials</i> , 2021 , e2106253	24	19
64	Solution processed thin film transistor from liquid phase exfoliated MoS ₂ flakes. <i>Solid-State Electronics</i> , 2018 , 141, 58-64	1.7	18
63	Impurity induced non-bulk stacking in chemically exfoliated h-BN nanosheets. <i>Nanoscale</i> , 2013 , 5, 2290-47.7	4.7	18
62	Improving stability of organometallic-halide perovskite solar cells using exfoliation two-dimensional molybdenum chalcogenides. <i>Npj 2D Materials and Applications</i> , 2020 , 4,	8.8	17
61	Liquid Exfoliated SnP ₃ Nanosheets for Very High Areal Capacity Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2002364	21.8	17
60	An in situ and ex situ TEM study into the oxidation of titanium (IV) sulphide. <i>Npj 2D Materials and Applications</i> , 2017 , 1,	8.8	15
59	An investigation of the energy storage properties of a 2D MoO ₃ -SWCNTs composite films. <i>2D Materials</i> , 2017 , 4, 015005	5.9	15
58	Nonlinear optical response of Mo ₆ S ₄ .514.5 nanowires. <i>Chemical Physics Letters</i> , 2007 , 435, 109-113	2.5	15
57	TiO ₂ -Based Nanomaterials for the Production of Hydrogen and the Development of Lithium-Ion Batteries. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 972-983	3.4	14
56	Single-step exfoliation and chemical functionalisation of graphene and hBN nanosheets with nickel phthalocyanine. <i>Journal of Materials Chemistry</i> , 2012 , 22, 23246		14

55	Charge transport mechanisms in inkjet-printed thin-film transistors based on two-dimensional materials. <i>Nature Electronics</i> , 2021 , 4, 893-905	28.4	13
54	A comparison of catabolic pathways induced in primary macrophages by pristine single walled carbon nanotubes and pristine graphene. <i>RSC Advances</i> , 2016 , 6, 65299-65310	3.7	12
53	pH-Responsive Saloplastics Based on Weak Polyelectrolytes: From Molecular Processes to Material Scale Properties. <i>Macromolecules</i> , 2018 , 51, 4424-4434	5.5	12
52	Lithium Titanate/Carbon Nanotubes Composites Processed by Ultrasound Irradiation as Anodes for Lithium Ion Batteries. <i>Scientific Reports</i> , 2017 , 7, 7614	4.9	12
51	High mobility solution processed MoS ₂ thin film transistors. <i>Solid-State Electronics</i> , 2019 , 158, 75-84	1.7	11
50	Percolating Metallic Structures Templated on Laser-Deposited Carbon Nanofoams Derived from Graphene Oxide: Applications in Humidity Sensing. <i>ACS Applied Nano Materials</i> , 2018 , 1, 1828-1835	5.6	11
49	Two-dimensional material inks. <i>Nature Reviews Materials</i> ,	73.3	11
48	Using chronoamperometry to rapidly measure and quantitatively analyse rate-performance in battery electrodes. <i>Journal of Power Sources</i> , 2020 , 468, 228220	8.9	9
47	Influence of temperature on morphological and optical properties of MoS ₂ layers as grown based on solution processed precursor. <i>Thin Solid Films</i> , 2018 , 645, 38-44	2.2	9
46	Layered Double Hydroxide as a Potent Non-viral Vector for Nucleic Acid Delivery Using Gene-Activated Scaffolds for Tissue Regeneration Applications. <i>Pharmaceutics</i> , 2020 , 12,	6.4	9
45	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. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 9113-9123	13	9
44	Quantifying the Dependence of Battery Rate Performance on Electrode Thickness. <i>ACS Applied Energy Materials</i> , 2020 , 3, 10154-10163	6.1	8
43	One-Dimensional (1D) Nanostructured Materials for Energy Applications. <i>Materials</i> , 2021 , 14,	3.5	8
42	Novel in-situ lamella fabrication technique for in-situ TEM. <i>Ultramicroscopy</i> , 2018 , 190, 21-29	3.1	7
41	Synthesis of centimeter-size free-standing perovskite nanosheets from single-crystal lead bromide for optoelectronic devices. <i>Scientific Reports</i> , 2019 , 9, 11738	4.9	7
40	Self-Assembly of Atomically Thin Chiral Copper Heterostructures Templated by Black Phosphorus. <i>Advanced Functional Materials</i> , 2019 , 29, 1903120	15.6	7
39	Silanization of Silica Nanoparticles and Their Processing as Nanostructured Micro-Raspberry Powders: A Route to Control the Mechanical Properties of Isoprene Rubber Composites. <i>Polymer Composites</i> , 2019 , 40, E732	3	6
38	Efficient dispersion and exfoliation of single-walled nanotubes in 3-aminopropyltriethoxysilane and its derivatives. <i>Nanotechnology</i> , 2008 , 19, 485702	3.4	6

37	EELS probing of lithium based 2-D battery compounds processed by liquid phase exfoliation. <i>Nano Energy</i> , 2016 , 30, 18-26	17.1	6
36	Microelectronics: Stamping of Flexible, Coplanar Micro-Supercapacitors Using MXene Inks (Adv. Funct. Mater. 9/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870059	15.6	5
35	Hollow Superparamagnetic Microballoons from Lifelike, Self-Directed Pickering Emulsions Based on Patchy Nanoparticles. <i>ACS Nano</i> , 2016 , 10, 10347-10356	16.7	5
34	Bonding States in Molecular-Scale MoSI Nanowire-Gold Nanoparticle Networks. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 393-397	6.4	5
33	TEM and EELS characterization of NiFe layered double hydroxide decompositions caused by electron beam irradiation. <i>Npj 2D Materials and Applications</i> , 2021 , 5,	8.8	5
32	0D-1D Hybrid Silicon Nanocomposite as Lithium-Ion Batteries Anodes. <i>Nanomaterials</i> , 2020 , 10,	5.4	4
31	2D nanosheets from fool gold by LPE: High performance lithium-ion battery anodes made from stone. <i>FlatChem</i> , 2021 , 30, 100295	5.1	4
30	Solvent engineered synthesis of layered SnO for high-performance anodes. <i>Npj 2D Materials and Applications</i> , 2021 , 5,	8.8	4
29	Liquid phase exfoliation of nonlayered non-van der Waals iron trifluoride (FeF ₃) into 2D-platelets for high-capacity lithium storing cathodes. <i>FlatChem</i> , 2022 , 33, 100360	5.1	4
28	Synthesis of layered platelets by self-assembly of rhenium-based clusters directed by long-chain amines. <i>Npj 2D Materials and Applications</i> , 2017 , 1,	8.8	3
27	Processing and characterisation of MoS ₂ nanowires. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 433-41	3.6	3
26	Interfacial Engineered Vanadium Oxide Nanoheterostructures Synchronizing High-Energy and Long-Term Potassium-Ion Storage.. <i>ACS Nano</i> , 2022 ,	16.7	3
25	Inclusion of 2D Transition Metal Dichalcogenides in Perovskite Inks and Their Influence on Solar Cell Performance. <i>Nanomaterials</i> , 2021 , 11,	5.4	3
24	Colloidal Core-Satellite Supraparticles via Preprogrammed Burst of Nanostructured Micro-Raspberry Particles. <i>Particle and Particle Systems Characterization</i> , 2018 , 35, 1800096	3.1	3
23	Quantifying the Effect of Separator Thickness on Rate Performance in Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2022 , 169, 030503	3.9	3
22	Sonochemical edge functionalisation of molybdenum disulfide. <i>Nanoscale</i> , 2019 , 11, 15550-15560	7.7	2
21	Study Using Low-loss EELS to Compare Properties of TMDs Produced by Mechanical and Liquid Phase Exfoliation. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1475-1476	0.5	2
20	MoS ₂ Nanowires: Structure Studies by HRTEM and Aberration Corrected STEM. <i>Journal of Physics: Conference Series</i> , 2006 , 26, 260-263	0.3	2

19	Silver nanocolloid generation using dynamic Laser Ablation Synthesis in Solution system and drop-casting. <i>Nano Structures Nano Objects</i> , 2022 , 29, 100841	5.6	2
18	Extending the Cyclability of Alkaline Zinc-Air Batteries: Synergistic Roles of Li and K Ions in Electrode. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 33112-33122	9.5	2
17	Postsynthetic treatment of nickel-iron layered double hydroxides for the optimum catalysis of the oxygen evolution reaction. <i>Npj 2D Materials and Applications</i> , 2021 , 5,	8.8	2
16	Laser-powder bed fusion of silicon carbide reinforced 316L stainless steel using a sinusoidal laser scanning strategy. <i>Journal of Materials Research and Technology</i> , 2022 ,	5.5	2
15	Charged Domain Wall and Polar Vortex Topologies in a Room-Temperature Magnetoelectric Multiferroic Thin Film.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	1
14	Temperature influence on Ti3C2Tx lines printed by aerosol jet printing. <i>Sensors and Actuators A: Physical</i> , 2021 , 332, 113185	3.9	1
13	One-Step Grown Carbonaceous Germanium Nanowires and Their Application as Highly Efficient Lithium-Ion Battery Anodes.. <i>ACS Applied Energy Materials</i> , 2022 , 5, 1922-1932	6.1	0
12	The Potential of MXene Materials as a Component in the Catalyst Layer for the Oxygen Evolution Reaction. <i>Current Opinion in Electrochemistry</i> , 2022 , 101021	7.2	0
11	Laser-powder bed fusion in-process dispersion of reinforcing ceramic nanoparticles onto powder beds via colloid nebulisation. <i>Materials Chemistry and Physics</i> , 2022 , 287, 126245	4.4	0
10	Electronic structure of purified Mo6S(9x) nanowires studied by X-ray spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2016 , 207, 29-33	1.7	
9	Characterizing the Calcination Behaviors of Ni-Fe Layered Double Hydroxide Materials via In-situ Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2018 , 24, 1878-1879	0.5	
8	In-situ TEM Analyses over FIB Lamellae - Investigating High Temperature Conversion of Solution Processed Mo-precursor to MoS2 Semiconductor Films.. <i>Microscopy and Microanalysis</i> , 2017 , 23, 258-259 ^{0.5}		
7	A facile route to self-assembled Hg//MoS nanowire networks. <i>New Journal of Chemistry</i> , 2010 , 34, 2241-2246	3.6	
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