

Francesco Bonaccorso

List of Publications by Citations

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181
papers

25,788
citations

58
h-index

160
g-index

196
ext. papers

29,686
ext. citations

11.6
avg, IF

7.18
L-index

#	Paper	IF	Citations
181	Graphene photonics and optoelectronics. <i>Nature Photonics</i> , 2010 , 4, 611-622	33.9	5678
180	2D materials. Graphene, related two-dimensional crystals, and hybrid systems for energy conversion and storage. <i>Science</i> , 2015 , 347, 1246501	33.3	2450
179	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. <i>Nanoscale</i> , 2015 , 7, 4598-810	7.7	2015
178	Electronics based on two-dimensional materials. <i>Nature Nanotechnology</i> , 2014 , 9, 768-79	28.7	1953
177	Graphene mode-locked ultrafast laser. <i>ACS Nano</i> , 2010 , 4, 803-10	16.7	1547
176	Inkjet-printed graphene electronics. <i>ACS Nano</i> , 2012 , 6, 2992-3006	16.7	864
175	Production and processing of graphene and 2d crystals. <i>Materials Today</i> , 2012 , 15, 564-589	21.8	745
174	Nanotube/Polymer Composites for Ultrafast Photonics. <i>Advanced Materials</i> , 2009 , 21, 3874-3899	24	659
173	. <i>Proceedings of the IEEE</i> , 2012 , 100, 1486-1517	14.3	649
172	Solution Synthesis Approach to Colloidal Cesium Lead Halide Perovskite Nanoplatelets with Monolayer-Level Thickness Control. <i>Journal of the American Chemical Society</i> , 2016 , 138, 1010-6	16.4	615
171	Energy storage: The future enabled by nanomaterials. <i>Science</i> , 2019 , 366,	33.3	564
170	An advanced lithium-ion battery based on a graphene anode and a lithium iron phosphate cathode. <i>Nano Letters</i> , 2014 , 14, 4901-6	11.5	347
169	2D-Crystal-Based Functional Inks. <i>Advanced Materials</i> , 2016 , 28, 6136-66	24	315
168	Vegetable-based dye-sensitized solar cells. <i>Chemical Society Reviews</i> , 2015 , 44, 3244-94	58.5	241
167	Quantum engineering of transistors based on 2D materials heterostructures. <i>Nature Nanotechnology</i> , 2018 , 13, 183-191	28.7	198
166	Production and processing of graphene and related materials. <i>2D Materials</i> , 2020 , 7, 022001	5.9	179
165	Graphene-Based Interfaces Do Not Alter Target Nerve Cells. <i>ACS Nano</i> , 2016 , 10, 615-23	16.7	172

164	Solution processing of graphene, topological insulators and other 2d crystals for ultrafast photonics. <i>Optical Materials Express</i> , 2014 , 4, 63	2.6	164
163	Graphene Interface Engineering for Perovskite Solar Modules: 12.6% Power Conversion Efficiency over 50 cm ² Active Area. <i>ACS Energy Letters</i> , 2017 , 2, 279-287	20.1	162
162	Ink-jet printing of graphene for flexible electronics: An environmentally-friendly approach. <i>Solid State Communications</i> , 2015 , 224, 53-63	1.6	162
161	Brownian motion of graphene. <i>ACS Nano</i> , 2010 , 4, 7515-23	16.7	160
160	Solution-phase exfoliation of graphite for ultrafast photonics. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 2953-2957	1.3	152
159	Nonvolatile Memories Based on Graphene and Related 2D Materials. <i>Advanced Materials</i> , 2019 , 31, e1806663	18.6	145
158	Reduced graphene oxide as efficient and stable hole transporting material in mesoscopic perovskite solar cells. <i>Nano Energy</i> , 2016 , 22, 349-360	17.1	142
157	MoS Quantum Dot/Graphene Hybrids for Advanced Interface Engineering of a CH ₃ NH ₃ PbI ₃ Perovskite Solar Cell with an Efficiency of over 20. <i>ACS Nano</i> , 2018 , 12, 10736-10754	16.7	138
156	Few-Layer MoS ₂ Flakes as Active Buffer Layer for Stable Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2016 , 6, 1600920	21.8	135
155	Graphene-Perovskite Solar Cells Exceed 18 % Efficiency: A Stability Study. <i>ChemSusChem</i> , 2016 , 9, 2609-2619	26.9	133
154	Generalized One-Pot Synthesis of Copper Sulfide, Selenide-Sulfide, and Telluride-Sulfide Nanoparticles. <i>Chemistry of Materials</i> , 2014 , 26, 1442-1449	9.6	129
153	Density Gradient Ultracentrifugation of Nanotubes: Interplay of Bundling and Surfactants Encapsulation. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 17267-17285	3.8	125
152	Scalable Production of Graphene Inks via Wet-Jet Milling Exfoliation for Screen-Printed Micro-Supercapacitors. <i>Advanced Functional Materials</i> , 2019 , 29, 1807659	15.6	123
151	Molar Extinction Coefficient of Single-Wall Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 14682-14686	3.8	117
150	Graphene-based large area dye-sensitized solar cell modules. <i>Nanoscale</i> , 2016 , 8, 5368-78	7.7	114
149	Light-assisted delithiation of lithium iron phosphate nanocrystals towards photo-rechargeable lithium ion batteries. <i>Nature Communications</i> , 2017 , 8, 14643	17.4	112
148	Engineered MoSe ₂ -Based Heterostructures for Efficient Electrochemical Hydrogen Evolution Reaction. <i>Advanced Energy Materials</i> , 2018 , 8, 1703212	21.8	107
147	Femtonewton force sensing with optically trapped nanotubes. <i>Nano Letters</i> , 2008 , 8, 3211-6	11.5	95

146	High-yield production of 2D crystals by wet-jet milling. <i>Materials Horizons</i> , 2018 , 5, 890-904	14.4	92
145	Extending the Continuous Operating Lifetime of Perovskite Solar Cells with a Molybdenum Disulfide Hole Extraction Interlayer. <i>Advanced Energy Materials</i> , 2018 , 8, 1702287	21.8	90
144	Carbon Nanotube-Supported MoSe Holey Flake:MoC Ball Hybrids for Bifunctional pH-Universal Water Splitting. <i>ACS Nano</i> , 2019 , 13, 3162-3176	16.7	89
143	Re-radiation enhancement in polarized surface-enhanced resonant Raman scattering of randomly oriented molecules on self-organized gold nanowires. <i>ACS Nano</i> , 2011 , 5, 5945-56	16.7	87
142	Rotation detection in light-driven nanorotors. <i>ACS Nano</i> , 2009 , 3, 3077-84	16.7	87
141	Two-Dimensional Material Interface Engineering for Efficient Perovskite Large-Area Modules. <i>ACS Energy Letters</i> , 2019 , 4, 1862-1871	20.1	84
140	Mechanically Stacked, Two-Terminal Graphene-Based Perovskite/Silicon Tandem Solar Cell with Efficiency over 26%. <i>Joule</i> , 2020 , 4, 865-881	27.8	76
139	Black phosphorus polycarbonate polymer composite for pulsed fibre lasers. <i>Applied Materials Today</i> , 2016 , 4, 17-23	6.6	74
138	Exfoliation of Few-Layer Black Phosphorus in Low-Boiling-Point Solvents and Its Application in Li-Ion Batteries. <i>Chemistry of Materials</i> , 2018 , 30, 506-516	9.6	74
137	Hollow and Porous Nickel Cobalt Perselenide Nanostructured Microparticles for Enhanced Electrocatalytic Oxygen Evolution. <i>Chemistry of Materials</i> , 2017 , 29, 7032-7041	9.6	73
136	Size-Tuning of WSe Flakes for High Efficiency Inverted Organic Solar Cells. <i>ACS Nano</i> , 2017 , 11, 3517-3531	16.7	72
135	Boosting Perovskite Solar Cells Performance and Stability through Doping a Poly-3(hexylthiophene) Hole Transporting Material with Organic Functionalized Carbon Nanostructures. <i>Advanced Functional Materials</i> , 2016 , 26, 7443-7453	15.6	72
134	Phonon-assisted electroluminescence from metallic carbon nanotubes and graphene. <i>Nano Letters</i> , 2010 , 10, 1589-94	11.5	71
133	Optical trapping of nanotubes with cylindrical vector beams. <i>Optics Letters</i> , 2012 , 37, 3381-3	3	71
132	WS-Graphite Dual-Ion Batteries. <i>Nano Letters</i> , 2018 , 18, 7155-7164	11.5	68
131	Liquid-Phase Exfoliated Indium-Selenide Flakes and Their Application in Hydrogen Evolution Reaction. <i>Small</i> , 2018 , 14, e1800749	11	68
130	Binder-free graphene as an advanced anode for lithium batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 6886-6895	13	67
129	Solution-Processed Hybrid Graphene Flake/2H-MoS ₂ Quantum Dot Heterostructures for Efficient Electrochemical Hydrogen Evolution. <i>Chemistry of Materials</i> , 2017 , 29, 5782-5786	9.6	66

128	Sorting Nanoparticles by Centrifugal Fields in Clean Media. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 13217-13229	3.8	66
127	Mid-infrared Raman-soliton continuum pumped by a nanotube-mode-locked sub-picosecond Tm-doped MOPFA. <i>Optics Express</i> , 2013 , 21, 23261-71	3.3	64
126	Functionalized Graphene as an Electron-Cascade Acceptor for Air-Processed Organic Ternary Solar Cells. <i>Advanced Functional Materials</i> , 2015 , 25, 3870-3880	15.6	63
125	Polypyridyl ligands as a versatile platform for solid-state light-emitting devices. <i>Chemical Society Reviews</i> , 2019 , 48, 5033-5139	58.5	60
124	Graphene-Based Electron Transport Layers in Perovskite Solar Cells: A Step-Up for an Efficient Carrier Collection. <i>Advanced Energy Materials</i> , 2017 , 7, 1701349	21.8	60
123	Reduction of moisture sensitivity of PbS quantum dot solar cells by incorporation of reduced graphene oxide. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 183, 1-7	6.4	55
122	Influence of chloride ions on the synthesis of colloidal branched CdSe/CdS nanocrystals by seeded growth. <i>ACS Nano</i> , 2012 , 6, 11088-96	16.7	55
121	Double-wall carbon nanotubes for wide-band, ultrafast pulse generation. <i>ACS Nano</i> , 2014 , 8, 4836-47	16.7	54
120	Carbon-Based Photocathode Materials for Solar Hydrogen Production. <i>Advanced Materials</i> , 2019 , 31, e1801446	24	54
119	Graphene-Induced Improvements of Perovskite Solar Cell Stability: Effects on Hot-Carriers. <i>Nano Letters</i> , 2019 , 19, 684-691	11.5	53
118	Solution blending preparation of polycarbonate/graphene composite: boosting the mechanical and electrical properties. <i>RSC Advances</i> , 2016 , 6, 97931-97940	3.7	52
117	Thermal Stability and Anisotropic Sublimation of Two-Dimensional Colloidal Bi ₂ Te ₃ and Bi ₂ Se ₃ Nanocrystals. <i>Nano Letters</i> , 2016 , 16, 4217-23	11.5	51
116	Doped-MoSe ₂ Nanoflakes/3d Metal OxideHydr(Oxy)Oxides Hybrid Catalysts for pH-Universal Electrochemical Hydrogen Evolution Reaction. <i>Advanced Energy Materials</i> , 2018 , 8, 1801764	21.8	50
115	Enhanced performance of polymer:fullerene bulk heterojunction solar cells upon graphene addition. <i>Applied Physics Letters</i> , 2014 , 105, 083306	3.4	49
114	Few-layer graphene improves silicon performance in Li-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 19306-19315	13	48
113	Etched colloidal LiFePO ₄ nanoplatelets toward high-rate capable Li-ion battery electrodes. <i>Nano Letters</i> , 2014 , 14, 6828-35	11.5	47
112	Solution-Processed GaSe Nanoflake-Based Films for Photoelectrochemical Water Splitting and Photoelectrochemical-Type Photodetectors. <i>Advanced Functional Materials</i> , 2020 , 30, 1909572	15.6	46
111	Foldable Conductive Cellulose Fiber Networks Modified by Graphene Nanoplatelet-Bio-Based Composites. <i>Advanced Electronic Materials</i> , 2015 , 1, 1500224	6.4	46

110	Single wall carbon nanotubes deposited on stainless steel sheet substrates as novel counter electrodes for ruthenium polypyridine based dye sensitized solar cells. <i>Dalton Transactions</i> , 2010 , 39, 2903-9	4.3	46
109	Modifying the Size of Ultrasound-Induced Liquid-Phase Exfoliated Graphene: From Nanosheets to Nanodots. <i>ACS Nano</i> , 2016 , 10, 10768-10777	16.7	45
108	Multiwall nanotubes, multilayers, and hybrid nanostructures: new frontiers for technology and Raman spectroscopy. <i>ACS Nano</i> , 2013 , 7, 1838-44	16.7	45
107	Polymer-Assisted Isolation of Single Wall Carbon Nanotubes in Organic Solvents for Optical-Quality Nanotube Polymer Composites. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 20227-20232	3.8	44
106	Few-layer MoS ₂ flakes as a hole-selective layer for solution-processed hybrid organic hydrogen-evolving photocathodes. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 4384-4396	13	43
105	High surface area graphene foams by chemical vapor deposition. <i>2D Materials</i> , 2016 , 3, 045013	5.9	42
104	Spider silk reinforced by graphene or carbon nanotubes. <i>2D Materials</i> , 2017 , 4, 031013	5.9	40
103	An anisotropic layer-by-layer carbon nanotube/boron nitride/rubber composite and its application in electromagnetic shielding. <i>Nanoscale</i> , 2020 , 12, 7782-7791	7.7	39
102	Effect of graphene nano-platelet morphology on the elastic modulus of soft and hard biopolymers. <i>Carbon</i> , 2016 , 109, 331-339	10.4	38
101	Cellulosic Graphene Biocomposites for Versatile High-Performance Flexible Electronic Applications. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600245	6.4	35
100	Efficient charge transfer in solution-processed PbS quantum dot-reduced graphene oxide hybrid materials. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 7088-7095	7.1	34
99	Toward Pt-Free Anion-Exchange Membrane Fuel Cells: Fe ₃ N Carbon Nitride@Graphene Core-Shell Electrocatalysts for the Oxygen Reduction Reaction. <i>Chemistry of Materials</i> , 2018 , 30, 2651-2659	9.6	34
98	In situ LiFePO ₄ nano-particles grown on few-layer graphene flakes as high-power cathode nanohybrids for lithium-ion batteries. <i>Nano Energy</i> , 2018 , 51, 656-667	17.1	34
97	TaS, TaSe, and Their Heterogeneous Films as Catalysts for the Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , 2020 , 10, 3313-3325	13.1	33
96	A Shape-Engineered Surface-Enhanced Raman Scattering Optical Fiber Sensor Working from the Visible to the Near-Infrared. <i>Plasmonics</i> , 2013 , 8, 13-23	2.4	32
95	Optical properties of nanotube bundles by photoluminescence excitation and absorption spectroscopy. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 2352-2359	3	32
94	High-Power Graphene@Carbon Nanotube Hybrid Supercapacitors. <i>ChemNanoMat</i> , 2017 , 3, 436-446	3.5	30
93	Niobium disulphide (NbS ₂)-based (heterogeneous) electrocatalysts for an efficient hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 25593-25608	13	30

92	Extending the Colloidal Transition Metal Dichalcogenide Library to ReS Nanosheets for Application in Gas Sensing and Electrocatalysis. <i>Small</i> , 2019 , 15, e1904670	11	28
91	Biotransformation and Biological Interaction of Graphene and Graphene Oxide during Simulated Oral Ingestion. <i>Small</i> , 2018 , 14, e1800227	11	27
90	Optical trapping of carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 2347-2351	3	27
89	Electrically Conducting and Mechanically Strong Graphene-Polylactic Acid Composites for 3D Printing. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 11841-11848	9.5	26
88	How much does size really matter? Exploring the limits of graphene as Li ion battery anode material. <i>Solid State Communications</i> , 2017 , 251, 88-93	1.6	25
87	Ultrathin Orthorhombic PbS Nanosheets. <i>Chemistry of Materials</i> , 2019 , 31, 8145-8153	9.6	25
86	Nanotubes complexed with DNA and proteins for resistive-pulse sensing. <i>ACS Nano</i> , 2013 , 7, 8857-69	16.7	25
85	Single-step exfoliation and functionalization of few-layers black phosphorus and its application for polymer composites. <i>FlatChem</i> , 2019 , 18, 100131	5.1	24
84	Scalable spray-coated graphene-based electrodes for high-power electrochemical double-layer capacitors operating over a wide range of temperature. <i>Energy Storage Materials</i> , 2021 , 34, 1-11	19.4	24
83	Graphene-engineered automated sprayed mesoscopic structure for perovskite device scaling-up. <i>2D Materials</i> , 2018 , 5, 045034	5.9	22
82	Graphene-Based Hole-Selective Layers for High-Efficiency, Solution-Processed, Large-Area, Flexible, Hydrogen-Evolving Organic Photocathodes. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 21887-21903	23.8	22
81	Fabrication of gold tips by chemical etching in aqua regia. <i>Review of Scientific Instruments</i> , 2007 , 78, 103702	10.2	22
80	Permanent Lattice Compression of Lead-Halide Perovskite for Persistently Enhanced Optoelectronic Properties. <i>ACS Energy Letters</i> , 2020 , 5, 642-649	20.1	21
79	Liquid-Phase Exfoliated GeSe Nanoflakes for Photoelectrochemical-Type Photodetectors and Photoelectrochemical Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 48598-48613	9.5	21
78	Solution-processed two-dimensional materials for next-generation photovoltaics. <i>Chemical Society Reviews</i> , 2021 , 50, 11870-11965	58.5	21
77	Flexible Graphene/Carbon Nanotube Electrochemical Double-Layer Capacitors with Ultrahigh Areal Performance. <i>ChemPlusChem</i> , 2019 , 84, 882-892	2.8	20
76	CVD-graphene/graphene flakes dual-films as advanced DSSC counter electrodes. <i>2D Materials</i> , 2019 , 6, 035007	5.9	20
75	Fast and reliable fabrication of gold tips with sub-50 nm radius of curvature for tip-enhanced Raman spectroscopy. <i>Review of Scientific Instruments</i> , 2013 , 84, 073702	1.7	20

74	ITO nanoparticles break optical transparency/high-areal capacitance trade-off for advanced aqueous supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 25177-25186	13	20
73	Silicon Few-Layer Graphene Nanocomposite as High-Capacity and High-Rate Anode in Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019 , 2, 1793-1802	6.1	20
72	Pulsed laser deposition of multiwalled carbon nanotubes thin films. <i>Applied Surface Science</i> , 2007 , 254, 1260-1263	6.7	19
71	Light depolarization induced by sharp metallic tips and effects on Tip-Enhanced Raman Spectroscopy. <i>Thin Solid Films</i> , 2008 , 516, 8064-8072	2.2	19
70	Molecularly engineered hole-transport material for low-cost perovskite solar cells. <i>Chemical Science</i> , 2020 , 11, 2429-2439	9.4	18
69	Octapod-Shaped CdSe Nanocrystals Hosting Pt with High Mass Activity for the Hydrogen Evolution Reaction. <i>Chemistry of Materials</i> , 2020 , 32, 2420-2429	9.6	18
68	Self-Assembled Dense Colloidal Cu ₂ Te Nanodisk Networks in P3HT Thin Films with Enhanced Photocurrent. <i>Advanced Functional Materials</i> , 2016 , 26, 4535-4542	15.6	18
67	Scalar Nanosecond Pulse Generation in a Nanotube Mode-Locked Environmentally Stable Fiber Laser. <i>IEEE Photonics Technology Letters</i> , 2014 , 26, 1672-1675	2.2	18
66	Evanescent-wave coupled right angled buried waveguide: Applications in carbon nanotube mode-locking. <i>Applied Physics Letters</i> , 2013 , 103, 221117	3.4	18
65	Debundling and Selective Enrichment of SWNTs for Applications in Dye-Sensitized Solar Cells. <i>International Journal of Photoenergy</i> , 2010 , 2010, 1-14	2.1	18
64	Hierarchical oxygen reduction reaction electrocatalysts based on FeSn _{0.5} species embedded in carbon nitride-graphene based supports. <i>Electrochimica Acta</i> , 2018 , 280, 149-162	6.7	18
63	Biodegradable and Insoluble Cellulose Photonic Crystals and Metasurfaces. <i>ACS Nano</i> , 2020 , 14, 9502-9511	11.7	17
62	Liquid Phase Exfoliated Indium Selenide Based Highly Sensitive Photodetectors. <i>Advanced Functional Materials</i> , 2020 , 30, 1908427	15.6	17
61	Single-/Few-Layer Graphene as Long-Lasting Electrocatalyst for Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2019 , 2, 5373-5379	6.1	17
60	Temperature dependent separation of metallic and semiconducting carbon nanotubes using gel agarose chromatography. <i>Carbon</i> , 2015 , 93, 574-594	10.4	17
59	Carbon nanotubes-bridged molybdenum trioxide nanosheets as high performance anode for lithium ion batteries. <i>2D Materials</i> , 2018 , 5, 015024	5.9	17
58	Ultralow friction of ink-jet printed graphene flakes. <i>Nanoscale</i> , 2017 , 9, 7612-7624	7.7	15
57	Sliding graphene: a novel concept to boost supercapacitor performance. <i>Nanoscale Horizons</i> , 2019 , 4, 1077-1091	10.8	15

56	Ruthenium Tetrazole Based Electroluminescent Device: Key Role of Counter Ions for Light Emission Properties. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 24965-24972	3.8	15
55	Nanocrystals of Lead Chalcogenides: A Series of Kinetically Trapped Metastable Nanostructures. <i>Journal of the American Chemical Society</i> , 2020 , 142, 10198-10211	16.4	14
54	Enhancement of the Magnetic Coupling in Exfoliated CrCl Crystals Observed by Low-Temperature Magnetic Force Microscopy and X-ray Magnetic Circular Dichroism. <i>Advanced Materials</i> , 2020 , 32, e2000566	24	14
53	Non-Equilibrium Synthesis of Highly Active Nanostructured, Oxygen-Incorporated Amorphous Molybdenum Sulfide HER Electrocatalyst. <i>Small</i> , 2020 , 16, e2004047	11	14
52	Low-Temperature Graphene-Based Paste for Large-Area Carbon Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 22368-22380	9.5	14
51	Electrode selection rules for enhancing the performance of triboelectric nanogenerators and the role of few-layers graphene. <i>Nano Energy</i> , 2020 , 76, 104989	17.1	13
50	Thioethyl-Porphyrazine/Nanocarbon Hybrids for Photoinduced Electron Transfer. <i>Advanced Functional Materials</i> , 2018 , 28, 1705418	15.6	13
49	Graphene morphology effect on the gas barrier, mechanical and thermal properties of thermoplastic polyurethane. <i>Composites Science and Technology</i> , 2020 , 200, 108461	8.6	13
48	Moisture resistance in perovskite solar cells attributed to a water-splitting layer. <i>Communications Materials</i> , 2021 , 2,	6	13
47	A ruthenium tetrazole complex-based high efficiency near infrared light electrochemical cell. <i>Chemical Communications</i> , 2017 , 53, 6211-6214	5.8	12
46	Enhancing the Performance of Poly(phthalazinone ether ketone)-Based Membranes Using a New Type of Functionalized TiO ₂ with Superior Proton Conductivity. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 6589-6599	3.9	12
45	A few-layer graphene for advanced composite PVDF membranes dedicated to water desalination: a comparative study. <i>Nanoscale Advances</i> , 2020 , 2, 4728-4739	5.1	12
44	Functionalized metallic transition metal dichalcogenide (TaS ₂) for nanocomposite membranes in direct methanol fuel cells. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 6368-6381	13	12
43	Tin Diselenide Molecular Precursor for Solution-Processable Thermoelectric Materials. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 17063-17068	16.4	12
42	A two-fold engineering approach based on Bi ₂ Te ₃ flakes towards efficient and stable inverted perovskite solar cells. <i>Materials Advances</i> , 2020 , 1, 450-462	3.3	10
41	Phase Transitions in Low-Dimensional Layered Double Perovskites: The Role of the Organic Moieties. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 280-286	6.4	10
40	Nonlinear subharmonic oscillation of orthotropic graphene-matrix composite. <i>Computational Materials Science</i> , 2015 , 99, 164-172	3.2	9
39	High-Sulfur-Content Graphene-Based Composite through Ethanol Evaporation for High-Energy Lithium-Sulfur Battery. <i>ChemSusChem</i> , 2020 , 13, 1593-1602	8.3	9

38	Enhanced electrical conductivity of poly(methyl methacrylate) filled with graphene and in situ synthesized gold nanoparticles. <i>Nano Futures</i> , 2018 , 2, 025003	3.6	9
37	Defect-assisted photoluminescence in hexagonal boron nitride nanosheets. <i>2D Materials</i> , 2020 , 7, 045023	3.9	8
36	Microwave-Induced Structural Engineering and Pt Trapping in 6R-TaS for the Hydrogen Evolution Reaction. <i>Small</i> , 2020 , 16, e2003372	11	8
35	Inverted perovskite solar cells with enhanced lifetime and thermal stability enabled by a metallic tantalum disulfide buffer layer. <i>Nanoscale Advances</i> , 2021 , 3, 3124-3135	5.1	8
34	Electrotactile touch surface by using transparent graphene 2012 ,		7
33	From scaled-up production of silicon-graphene nanocomposite to the realization of an ultra-stable full-cell Li-ion battery. <i>2D Materials</i> , 2021 , 8, 035014	5.9	7
32	Graphene-Based Electrodes in a Vanadium Redox Flow Battery Produced by Rapid Low-Pressure Combined Gas Plasma Treatments. <i>Chemistry of Materials</i> , 2021 , 33, 4106-4121	9.6	7
31	Curvature dynamics and long-range effects on fluid-fluid interfaces with colloids. <i>Soft Matter</i> , 2019 , 15, 2848-2862	3.6	7
30	Tin Diselenide Molecular Precursor for Solution-Processable Thermoelectric Materials. <i>Angewandte Chemie</i> , 2018 , 130, 17309-17314	3.6	7
29	Water-dispersible few-layer graphene flakes for selective and rapid ion mercury (Hg ²⁺)-rejecting membranes. <i>Materials Advances</i> , 2020 , 1, 387-402	3.3	6
28	(Co, Ni)Sn _{0.5} Nanoparticles Supported on Hierarchical Carbon Nitride-Graphene-Based Electrocatalysts for the Oxygen Reduction Reaction. <i>ChemElectroChem</i> , 2018 , 5, 2029-2040	4.3	6
27	Graphene and related 2D materials for high efficient and stable perovskite solar cells 2017 ,		6
26	Carbon nanotubes irradiation effects induced by pulsed laser beams. <i>Radiation Effects and Defects in Solids</i> , 2008 , 163, 453-461	0.9	6
25	Mixed Dimethylammonium/Methylammonium Lead Halide Perovskite Single Crystals for Improved Structural Stability and Enhanced Photodetection. <i>Advanced Materials</i> , 2021 , e2106160	24	6
24	Two-Dimensional Gallium Sulfide Nanoflakes for UV-Selective Photoelectrochemical-type Photodetectors. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 11857-11866	3.8	6
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