

Chuanfang Zhang

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/1755389/chuanfang-zhang-publications-by-year.pdf>

Version: 2024-04-18

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

480
papers

113,188
citations

150
h-index

333
g-index

508
ext. papers

138,656
ext. citations

13.9
avg, IF

9.22
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 480 | Perspectives on electrochemical nitrogen fixation catalyzed by two-dimensional MXenes. <i>Materials Reports Energy</i> , 2022 , 100076 | | 1 |
| 479 | Ionic Active MXene Nanopore Actuators.. <i>Small</i> , 2022 , 18, e2105857 | 11 | 1 |
| 478 | Synergy of ferric vanadate and MXene for high performance Li- and Na-ion batteries. <i>Chemical Engineering Journal</i> , 2022 , 436, 135012 | 14.7 | 1 |
| 477 | Deformation of and Interfacial Stress Transfer in TiC MXene-Polymer Composites.. <i>ACS Applied Materials & Interfaces</i> , 2022 , | 9.5 | 1 |
| 476 | Guidelines for Synthesis and Processing of Chemically Stable Two-Dimensional V ₂ CT _x MXene. <i>Chemistry of Materials</i> , 2022 , 34, 499-509 | 9.6 | 11 |
| 475 | Perspectives on preparation of two-dimensional MXenes. <i>Science and Technology of Advanced Materials</i> , 2021 , 22, 917-930 | 7.1 | 1 |
| 474 | A flexible and fully integrated wearable pressure sensing chip system for multi-scenario applications. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 26875-26884 | 13 | 4 |
| 473 | A Universal Approach for Room-Temperature Printing and Coating of 2D Materials. <i>Advanced Materials</i> , 2021 , e2103660 | 24 | 2 |
| 472 | Perspectives on solution processing of two-dimensional MXenes. <i>Materials Today</i> , 2021 , 48, 214-214 | 21.8 | 51 |
| 471 | Mechanisms of the Planar Growth of Lithium Metal Enabled by the 2D Lattice Confinement from a Ti ₃ C ₂ T _x MXene Intermediate Layer. <i>Advanced Functional Materials</i> , 2021 , 31, 2010987 | 15.6 | 11 |
| 470 | Modified MAX Phase Synthesis for Environmentally Stable and Highly Conductive TiC MXene. <i>ACS Nano</i> , 2021 , 15, 6420-6429 | 16.7 | 116 |
| 469 | Charge Dynamics in TiO ₂ /MXene Composites. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 10473-10482 | 3.8 | 4 |
| 468 | Coating Porous MXene Films with Tunable Porosity for High-Performance Solid-State Supercapacitors. <i>ChemElectroChem</i> , 2021 , 8, 1911-1917 | 4.3 | 9 |
| 467 | Spectroscopic signature of negative electronic compressibility from the Ti core-level of titanium carbonitride MXene. <i>Applied Physics Reviews</i> , 2021 , 8, 021401 | 17.3 | 4 |
| 466 | 2D MXenes with antiviral and immunomodulatory properties: A pilot study against SARS-CoV-2. <i>Nano Today</i> , 2021 , 38, 101136 | 17.9 | 23 |
| 465 | The world of two-dimensional carbides and nitrides (MXenes). <i>Science</i> , 2021 , 372, | 33.3 | 276 |
| 464 | High Breakdown Current Density in Monolayer Nb ₄ C ₃ T _x MXene 2021 , 3, 1088-1094 | | 4 |

| | | | |
|-----|--|------|----|
| 463 | Tailoring Ti3CNTx MXene via an acid molecular scissor. <i>Nano Energy</i> , 2021 , 85, 106007 | 17.1 | 8 |
| 462 | MXene conductive binder for improving performance of sodium-ion anodes in water-in-salt electrolyte. <i>Nano Energy</i> , 2021 , 79, 105433 | 17.1 | 14 |
| 461 | Ultralight Ti3C2Tx MXene foam with superior microwave absorption performance. <i>Chemical Engineering Journal</i> , 2021 , 408, 127283 | 14.7 | 41 |
| 460 | Solution-Processed Ti C T MXene Antennas for Radio-Frequency Communication. <i>Advanced Materials</i> , 2021 , 33, e2003225 | 24 | 38 |
| 459 | Additive-Free Aqueous MXene Inks for Thermal Inkjet Printing on Textiles. <i>Small</i> , 2021 , 17, 2006376 | 11 | 26 |
| 458 | The Broad Chromatic Range of Two-Dimensional Transition Metal Carbides. <i>Advanced Optical Materials</i> , 2021 , 9, 2001563 | 8.1 | 33 |
| 457 | Microsupercapacitor with a 500 nm gap between MXene/CNT electrodes. <i>Nano Energy</i> , 2021 , 81, 105616 | 17.1 | 25 |
| 456 | Optimizing Ion Pathway in Titanium Carbide MXene for Practical High-Rate Supercapacitor. <i>Advanced Energy Materials</i> , 2021 , 11, 2003025 | 21.8 | 59 |
| 455 | Characterization of MXenes at every step, from their precursors to single flakes and assembled films. <i>Progress in Materials Science</i> , 2021 , 120, 100757 | 42.2 | 80 |
| 454 | PEDOT:PSS-glued MoO3 nanowire network for all-solid-state flexible transparent supercapacitors. <i>Nanoscale Advances</i> , 2021 , 3, 3502-3512 | 5.1 | 6 |
| 453 | Moderating cellular inflammation using 2-dimensional titanium carbide MXene and graphene variants. <i>Biomaterials Science</i> , 2021 , 9, 1805-1815 | 7.4 | 7 |
| 452 | MXenes: An Emerging Platform for Wearable Electronics and Looking Beyond. <i>Matter</i> , 2021 , 4, 377-407 | 12.7 | 40 |
| 451 | Development and Applications of MXene-Based Functional Fibers. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 36655-36669 | 9.5 | 19 |
| 450 | Etching Mechanism of Monoatomic Aluminum Layers during MXene Synthesis. <i>Chemistry of Materials</i> , 2021 , 33, 6346-6355 | 9.6 | 14 |
| 449 | Probing the Pseudocapacitive Charge Storage in TiC MXene Thin Films with X-ray Reflectivity. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 43597-43605 | 9.5 | 2 |
| 448 | Titanium Carbide MXene Shows an Electrochemical Anomaly in Water-in-Salt Electrolytes. <i>ACS Nano</i> , 2021 , 15, 15274-15284 | 16.7 | 18 |
| 447 | Safe Synthesis of MAX and MXene: Guidelines to Reduce Risk During Synthesis. <i>Journal of Chemical Health and Safety</i> , 2021 , 28, 326-338 | 1.7 | 23 |
| 446 | Ten Years of Progress in the Synthesis and Development of MXenes. <i>Advanced Materials</i> , 2021 , 33, e21031 | 19.3 | 91 |

- 445 Can Anions Be Inserted into MXene?. *Journal of the American Chemical Society*, **2021**, 143, 12552-12559 16.4 19
- 444 TiCT MXene Flakes for Optical Control of Neuronal Electrical Activity. *ACS Nano*, **2021**, 15, 14662-14671 16.7 10
- 443 Interfacial assembly of two-dimensional MXenes. *Journal of Energy Chemistry*, **2021**, 60, 417-434 12 47
- 442 MXene-infused bioelectronic interfaces for multiscale electrophysiology and stimulation. *Science Translational Medicine*, **2021**, 13, eabf8629 17.5 13
- 441 Two-Dimensional MXene Modified Electrodes for Improved Anodic Performance in Vanadium Redox Flow Batteries. *Journal of the Electrochemical Society*, **2021**, 168, 090518 3.9 1
- 440 Adjustable electrochemical properties of solid-solution MXenes. *Nano Energy*, **2021**, 88, 106308 17.1 18
- 439 Multimodal Spectroscopic Study of Surface Termination Evolution in Cr₂TiC₂T_x MXene. *Advanced Materials Interfaces*, **2021**, 8, 2001789 4.6 7
- 438 Performance improvement of MXene-based perovskite solar cells upon property transition from metallic to semiconductive by oxidation of Ti₃C₂T_x in air. *Journal of Materials Chemistry A*, **2021**, 9, 5016-5025 13 24
- 437 Electrically Conductive MXene-Coated Glass Fibers for Damage Monitoring in Fiber-Reinforced Composites. *Journal of Carbon Research*, **2020**, 6, 64 3.3 0
- 436 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
- 435 MXene-Based Fibers, Yarns, and Fabrics for Wearable Energy Storage Devices. *Advanced Functional Materials*, **2020**, 30, 2000739 15.6 68
- 434 2D Titanium Carbide (Ti₃C₂T_x) in Accommodating Intraocular Lens Design. *Advanced Functional Materials*, **2020**, 30, 2000841 15.6 9
- 433 MXene Materials for Designing Advanced Separation Membranes. *Advanced Materials*, **2020**, 32, e1906697 27 103
- 432 All-pseudocapacitive asymmetric MXene-carbon-conducting polymer supercapacitors. *Nano Energy*, **2020**, 75, 104971 17.1 60
- 431 3D Flexible, Conductive, and Recyclable TiCT MXene-Melamine Foam for High-Areal-Capacity and Long-Lifetime Alkali-Metal Anode. *ACS Nano*, **2020**, 14, 8678-8688 16.7 92
- 430 A gel-free TiCT-based electrode array for high-density, high-resolution surface electromyography. *Advanced Materials Technologies*, **2020**, 5, 2000325 6.8 16
- 429 Bath Electrospinning of Continuous and Scalable Multifunctional MXene-Infiltrated Nanoyarns. *Small*, **2020**, 16, e2002158 11 38
- 428 MXene Films: Scalable Manufacturing of Free-Standing, Strong Ti₃C₂T_x MXene Films with Outstanding Conductivity (Adv. Mater. 23/2020). *Advanced Materials*, **2020**, 32, 2070180 24 3

| | | | |
|-----|---|------|-----|
| 427 | Toward Nanotechnology-Enabled Approaches against the COVID-19 Pandemic. <i>ACS Nano</i> , 2020 , 14, 6383-6406 | 16.7 | 290 |
| 426 | Tunable electrochromic behavior of titanium-based MXenes. <i>Nanoscale</i> , 2020 , 12, 14204-14212 | 7.7 | 19 |
| 425 | Turning Trash into Treasure: Additive Free MXene Sediment Inks for Screen-Printed Micro-Supercapacitors. <i>Advanced Materials</i> , 2020 , 32, e2000716 | 24 | 117 |
| 424 | Hydrophobic and Stable MXene-Polymer Pressure Sensors for Wearable Electronics. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 15362-15369 | 9.5 | 82 |
| 423 | Beyond TiCT: MXenes for Electromagnetic Interference Shielding. <i>ACS Nano</i> , 2020 , 14, 5008-5016 | 16.7 | 218 |
| 422 | Phenothiazine MXene Aqueous Asymmetric Pseudocapacitors. <i>ACS Applied Energy Materials</i> , 2020 , 3, 3144-3149 | 6.1 | 18 |
| 421 | A Two-Dimensional Mesoporous Polypyrrole-Graphene Oxide Heterostructure as a Dual-Functional Ion Redistributor for Dendrite-Free Lithium Metal Anodes. <i>Angewandte Chemie</i> , 2020 , 132, 12245-12251 | 3.6 | 8 |
| 420 | A Two-Dimensional Mesoporous Polypyrrole-Graphene Oxide Heterostructure as a Dual-Functional Ion Redistributor for Dendrite-Free Lithium Metal Anodes. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 12147-12153 | 16.4 | 69 |
| 419 | Two-Photon Absorption in Monolayer MXenes. <i>Advanced Optical Materials</i> , 2020 , 8, 1902021 | 8.1 | 26 |
| 418 | Nanocellulose-MXene Biomimetic Aerogels with Orientation-Tunable Electromagnetic Interference Shielding Performance. <i>Advanced Science</i> , 2020 , 7, 2000979 | 13.6 | 125 |
| 417 | Tracking ion intercalation into layered Ti3C2 MXene films across length scales. <i>Energy and Environmental Science</i> , 2020 , 13, 2549-2558 | 35.4 | 54 |
| 416 | Taking MXenes from the lab to commercial products. <i>Chemical Engineering Journal</i> , 2020 , 401, 125786 | 14.7 | 70 |
| 415 | Additive-Free MXene Liquid Crystals and Fibers. <i>ACS Central Science</i> , 2020 , 6, 254-265 | 16.8 | 73 |
| 414 | Fabrication of Ti3C2 MXene Microelectrode Arrays for In Vivo Neural Recording. <i>Journal of Visualized Experiments</i> , 2020 , | 1.6 | 8 |
| 413 | Electrical and Elastic Properties of Individual Single-Layer Nb4C3Tx MXene Flakes. <i>Advanced Electronic Materials</i> , 2020 , 6, 1901382 | 6.4 | 53 |
| 412 | Electromagnetic Interference Shielding: Electromagnetic Shielding of Monolayer MXene Assemblies (Adv. Mater. 9/2020). <i>Advanced Materials</i> , 2020 , 32, 2070064 | 24 | 12 |
| 411 | TiCT MXene-Reduced Graphene Oxide Composite Electrodes for Stretchable Supercapacitors. <i>ACS Nano</i> , 2020 , 14, 3576-3586 | 16.7 | 130 |
| 410 | Nested hybrid nanotubes. <i>Science</i> , 2020 , 367, 506-507 | 33.3 | 15 |

| | | | |
|-----|---|------|-----|
| 409 | Ion Structure Transition Enhances Charging Dynamics in Subnanometer Pores. <i>ACS Nano</i> , 2020 , 14, 2395-2403 | 24.3 | 29 |
| 408 | Two-dimensional MXenes for lithium-sulfur batteries. <i>Information Materials</i> , 2020 , 2, 613-638 | 23.1 | 130 |
| 407 | Electromagnetic Shielding of Monolayer MXene Assemblies. <i>Advanced Materials</i> , 2020 , 32, e1906769 | 24 | 207 |
| 406 | Scalable Synthesis of Ti ₃ C ₂ T _x MXene. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901241 | 3.5 | 164 |
| 405 | Enhancement of Ti ₃ C ₂ MXene Pseudocapacitance after Urea Intercalation Studied by Soft X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 5079-5086 | 3.8 | 17 |
| 404 | MXene Composite and Coaxial Fibers with High Stretchability and Conductivity for Wearable Strain Sensing Textiles. <i>Advanced Functional Materials</i> , 2020 , 30, 1910504 | 15.6 | 147 |
| 403 | A 2D Titanium Carbide MXene Flexible Electrode for High-Efficiency Light-Emitting Diodes. <i>Advanced Materials</i> , 2020 , 32, e2000919 | 24 | 59 |
| 402 | Self-assembly of hierarchical Ti ₃ C ₂ T _x -CNT/SiNPs resilient films for high performance lithium ion battery electrodes. <i>Electrochimica Acta</i> , 2020 , 348, 136211 | 6.7 | 20 |
| 401 | Raman Spectroscopy Analysis of the Structure and Surface Chemistry of Ti ₃ C ₂ T _x MXene. <i>Chemistry of Materials</i> , 2020 , 32, 3480-3488 | 9.6 | 227 |
| 400 | Flexible Nb ₄ C ₃ T _x Film with Large Interlayer Spacing for High-Performance Supercapacitors. <i>Advanced Functional Materials</i> , 2020 , 30, 2000815 | 15.6 | 38 |
| 399 | Conductivity extraction of thin Ti ₃ C ₂ T _x MXene films over 100 GHz using capacitively coupled test-fixture. <i>Applied Physics Letters</i> , 2020 , 116, 184101 | 3.4 | 5 |
| 398 | Percolation Characteristics of Conductive Additives for Capacitive Flowable (Semi-Solid) Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 5866-5875 | 9.5 | 16 |
| 397 | Oxidation-resistant titanium carbide MXene films. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 573-581 | 13 | 90 |
| 396 | An Ultrafast Conducting Polymer@MXene Positive Electrode with High Volumetric Capacitance for Advanced Asymmetric Supercapacitors. <i>Small</i> , 2020 , 16, e1906851 | 11 | 98 |
| 395 | Electrochemical Activation of 2D MXene-Based Hybrid for High Volumetric Mg-Ion Storage Capacitance. <i>Batteries and Supercaps</i> , 2020 , 3, 354-360 | 5.6 | 16 |
| 394 | Two-Dimensional Transition Metal Carbides and Nitrides (MXenes): Synthesis, Properties, and Electrochemical Energy Storage Applications. <i>Energy and Environmental Materials</i> , 2020 , 3, 29-55 | 13 | 148 |
| 393 | Proton Redox and Transport in MXene-Confined Water. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 763-770 | 9.5 | 18 |
| 392 | Synthesis of MoVAIC MAX Phase and Two-Dimensional MoVC MXene with Five Atomic Layers of Transition Metals. <i>ACS Nano</i> , 2020 , 14, 204-217 | 16.7 | 198 |

| | | | |
|-----|---|-------|-----|
| 391 | Ti3C2T /PEDOT:PSS hybrid materials for room-temperature methanol sensor. <i>Chinese Chemical Letters</i> , 2020 , 31, 1018-1021 | 8.1 | 31 |
| 390 | MXene-Based Dendrite-Free Potassium Metal Batteries. <i>Advanced Materials</i> , 2020 , 32, e1906739 | 24 | 130 |
| 389 | MXene-Derived Bilayered Vanadium Oxides with Enhanced Stability in Li-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020 , 3, 10892-10901 | 6.1 | 8 |
| 388 | Printing and coating MXenes for electrochemical energy storage devices. <i>JPhys Energy</i> , 2020 , 2, 031004 | 4.9 | 28 |
| 387 | Arrayed silk fibroin for high-performance Li metal batteries and atomic interface structure revealed by cryo-TEM. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 26045-26054 | 13 | 26 |
| 386 | Maximizing ion accessibility in MXene-knotted carbon nanotube composite electrodes for high-rate electrochemical energy storage. <i>Nature Communications</i> , 2020 , 11, 6160 | 17.4 | 71 |
| 385 | Rational Design of Titanium Carbide MXene Electrode Architectures for Hybrid Capacitive Deionization. <i>Energy and Environmental Materials</i> , 2020 , 3, 398-404 | 13 | 13 |
| 384 | Electrode material-ionic liquid coupling for electrochemical energy storage. <i>Nature Reviews Materials</i> , 2020 , 5, 787-808 | 73.3 | 89 |
| 383 | Anomalous absorption of electromagnetic waves by 2D transition metal carbonitride TiCNT (MXene). <i>Science</i> , 2020 , 369, 446-450 | 33.3 | 362 |
| 382 | Laser writing of the restacked titanium carbide MXene for high performance supercapacitors. <i>Energy Storage Materials</i> , 2020 , 32, 418-424 | 19.4 | 17 |
| 381 | Vertically Aligned Nanopatterns of Amine-Functionalized Ti3C2 MXene via Soft Lithography. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000424 | 4.6 | 10 |
| 380 | Perspectives for electrochemical capacitors and related devices. <i>Nature Materials</i> , 2020 , 19, 1151-1163 | 27 | 493 |
| 379 | Enhanced Rate Capability of Ion-Accessible Ti3C2Tx-NbN Hybrid Electrodes. <i>Advanced Energy Materials</i> , 2020 , 10, 2001411 | 21.8 | 28 |
| 378 | Tailoring Electronic and Optical Properties of MXenes through Forming Solid Solutions. <i>Journal of the American Chemical Society</i> , 2020 , 142, 19110-19118 | 16.4 | 58 |
| 377 | Bulk and Surface Chemistry of the Niobium MAX and MXene Phases from Multinuclear Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2020 , 142, 18924-18935 | 16.4 | 15 |
| 376 | Adsorption of Uremic Toxins Using TiCT MXene for Dialysate Regeneration. <i>ACS Nano</i> , 2020 , 14, 11787-11798 | 16.98 | 35 |
| 375 | Bioencapsulated MXene Flakes for Enhanced Stability and Composite Precursors. <i>Advanced Functional Materials</i> , 2020 , 30, 2004554 | 15.6 | 19 |
| 374 | Scalable Manufacturing of Free-Standing, Strong Ti C T MXene Films with Outstanding Conductivity. <i>Advanced Materials</i> , 2020 , 32, e2001093 | 24 | 268 |

| | | | |
|-----|--|------|-----|
| 373 | Enhanced Ionic Accessibility of Flexible MXene Electrodes Produced by Natural Sedimentation. <i>Nano-Micro Letters</i> , 2020 , 12, 89 | 19.5 | 30 |
| 372 | Computational Screening of 2D Ordered Double Transition-Metal Carbides (MXenes) as Electrocatalysts for Hydrogen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 10584-10592 | 3.8 | 24 |
| 371 | Synthesis and electrochemical properties of 2D molybdenum vanadium carbides solid solution MXenes. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 8957-8968 | 13 | 38 |
| 370 | Surface Modification of a MXene by an Aminosilane Coupling Agent. <i>Advanced Materials Interfaces</i> , 2020 , 7, 1902008 | 4.6 | 62 |
| 369 | Knittable and Washable Multifunctional MXene-Coated Cellulose Yarns. <i>Advanced Functional Materials</i> , 2019 , 29, 1905015 | 15.6 | 121 |
| 368 | MXene-Bonded Flexible Hard Carbon Film as Anode for Stable Na/K-Ion Storage. <i>Advanced Functional Materials</i> , 2019 , 29, 1906282 | 15.6 | 118 |
| 367 | Energy Storage Data Reporting in Perspective: Guidelines for Interpreting the Performance of Electrochemical Energy Storage Systems. <i>Advanced Energy Materials</i> , 2019 , 9, 1902007 | 21.8 | 349 |
| 366 | Tuning the Electrochemical Performance of Titanium Carbide MXene by Controllable In Situ Anodic Oxidation. <i>Angewandte Chemie</i> , 2019 , 131, 18013-18019 | 3.6 | 17 |
| 365 | Tuning the Electrochemical Performance of Titanium Carbide MXene by Controllable In Situ Anodic Oxidation. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 17849-17855 | 16.4 | 64 |
| 364 | Ultrafast Growth of Thin Hexagonal and Pyramidal Molybdenum Nitride Crystals and Films 2019 , 1, 383-388 | | 7 |
| 363 | A General Atomic Surface Modification Strategy for Improving Anchoring and Electrocatalysis Behavior of TiCT MXene in Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2019 , 13, 11078-11086 | 16.7 | 129 |
| 362 | Electrochemical Interaction of Sn-Containing MAX Phase (Nb ₂ SnC) with Li-Ions. <i>ACS Energy Letters</i> , 2019 , 4, 2452-2457 | 20.1 | 16 |
| 361 | Electrochemical Actuators Based on Two-Dimensional TiCT (MXene). <i>Nano Letters</i> , 2019 , 19, 7443-7448 | 11.5 | 53 |
| 360 | Ultralight and Mechanically Robust TiCT Hybrid Aerogel Reinforced by Carbon Nanotubes for Electromagnetic Interference Shielding. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 38046-38054 | 9.5 | 146 |
| 359 | Boosting Performance of Na-S Batteries Using Sulfur-Doped TiCT MXene Nanosheets with a Strong Affinity to Sodium Polysulfides. <i>ACS Nano</i> , 2019 , 13, 11500-11509 | 16.7 | 134 |
| 358 | Colloidal Gelation in Liquid Metals Enables Functional Nanocomposites of 2D Metal Carbides (MXenes) and Lightweight Metals. <i>ACS Nano</i> , 2019 , 13, 12415-12424 | 16.7 | 31 |
| 357 | Nanotechnology Facets of the Periodic Table of Elements. <i>ACS Nano</i> , 2019 , 13, 10879-10886 | 16.7 | 15 |
| 356 | Ultrathin, Wrinkled, Vertically Aligned Co(OH) Nanosheets/Ag Nanowires Hybrid Network for Flexible Transparent Supercapacitor with High Performance. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 8992-9001 | 9.5 | 72 |

| | | | |
|-----|---|------|-----|
| 355 | Carbon-Based Metal-Free Catalysts for Energy Storage and Environmental Remediation. <i>Advanced Materials</i> , 2019 , 31, e1806128 | 24 | 118 |
| 354 | Magnesium-Ion Storage Capability of MXenes. <i>ACS Applied Energy Materials</i> , 2019 , 2, 1572-1578 | 6.1 | 53 |
| 353 | Control of MXenes' electronic properties through termination and intercalation. <i>Nature Communications</i> , 2019 , 10, 522 | 17.4 | 380 |
| 352 | SnO ₂ /Ti ₃ C ₂ MXene electron transport layers for perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 5635-5642 | 13 | 111 |
| 351 | Electrospun MXene/carbon nanofibers as supercapacitor electrodes. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 269-277 | 13 | 272 |
| 350 | The Future of Layer-by-Layer Assembly: A Tribute to ACS Nano Associate Editor Helmuth Möhwald. <i>ACS Nano</i> , 2019 , 13, 6151-6169 | 16.7 | 127 |
| 349 | A Robust, Freestanding MXene-Sulfur Conductive Paper for Long-Lifetime LiS Batteries. <i>Advanced Functional Materials</i> , 2019 , 29, 1901907 | 15.6 | 131 |
| 348 | Revealing the Pseudo-Intercalation Charge Storage Mechanism of MXenes in Acidic Electrolyte. <i>Advanced Functional Materials</i> , 2019 , 29, 1902953 | 15.6 | 101 |
| 347 | Flexible CuO nanotube arrays composite electrodes for wire-shaped supercapacitors with robust electrochemical stability. <i>Chemical Engineering Journal</i> , 2019 , 374, 181-188 | 14.7 | 29 |
| 346 | High areal capacity battery electrodes enabled by segregated nanotube networks. <i>Nature Energy</i> , 2019 , 4, 560-567 | 62.3 | 153 |
| 345 | Two-Dimensional Arrays of Transition Metal Nitride Nanocrystals. <i>Advanced Materials</i> , 2019 , 31, e1902393 | 24 | 59 |
| 344 | On-Chip MXene Microsupercapacitors for AC-Line Filtering Applications. <i>Advanced Energy Materials</i> , 2019 , 9, 1901061 | 21.8 | 64 |
| 343 | Unimpeded migration of ions in carbon electrodes with bimodal pores at an ultralow temperature of 100 °C. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 16339-16346 | 13 | 16 |
| 342 | Enhanced Selectivity of MXene Gas Sensors through Metal Ion Intercalation: In Situ X-ray Diffraction Study. <i>ACS Sensors</i> , 2019 , 4, 1365-1372 | 9.2 | 84 |
| 341 | Immunomodulatory nanodiamond aggregate-based platform for the treatment of rheumatoid arthritis. <i>International Journal of Energy Production and Management</i> , 2019 , 6, 163-174 | 5.3 | 14 |
| 340 | Effect of Ti ₃ AlC ₂ MAX Phase on Structure and Properties of Resultant Ti ₃ C ₂ T _x MXene. <i>ACS Applied Nano Materials</i> , 2019 , 2, 3368-3376 | 5.6 | 92 |
| 339 | Additive-free MXene inks and direct printing of micro-supercapacitors. <i>Nature Communications</i> , 2019 , 10, 1795 | 17.4 | 407 |
| 338 | MXene-conducting polymer electrochromic microsupercapacitors. <i>Energy Storage Materials</i> , 2019 , 20, 455-461 | 19.4 | 69 |

| | | | |
|-----|--|------|-----|
| 337 | Anisotropic MXene Aerogels with a Mechanically Tunable Ratio of Electromagnetic Wave Reflection to Absorption. <i>Advanced Optical Materials</i> , 2019 , 7, 1900267 | 8.1 | 138 |
| 336 | Scalable Synthesis of Ultrathin Mn ₃ N ₂ Exhibiting Room-Temperature Antiferromagnetism. <i>Advanced Functional Materials</i> , 2019 , 29, 1809001 | 15.6 | 37 |
| 335 | Scalable Manufacturing of Large and Flexible Sheets of MXene/Graphene Heterostructures. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800639 | 6.8 | 60 |
| 334 | Electrochromic Effect in Titanium Carbide MXene Thin Films Produced by Dip-Coating. <i>Advanced Functional Materials</i> , 2019 , 29, 1809223 | 15.6 | 80 |
| 333 | Prediction of Synthesis of 2D Metal Carbides and Nitrides (MXenes) and Their Precursors with Positive and Unlabeled Machine Learning. <i>ACS Nano</i> , 2019 , 13, 3031-3041 | 16.7 | 95 |
| 332 | Influences from solvents on charge storage in titanium carbide MXenes. <i>Nature Energy</i> , 2019 , 4, 241-24862.3 | 229 | |
| 331 | Effects of Synthesis and Processing on Optoelectronic Properties of Titanium Carbonitride MXene. <i>Chemistry of Materials</i> , 2019 , 31, 2941-2951 | 9.6 | 98 |
| 330 | 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 |
| 329 | High-Temperature Behavior and Surface Chemistry of Carbide MXenes Studied by Thermal Analysis. <i>Chemistry of Materials</i> , 2019 , 31, 3324-3332 | 9.6 | 162 |
| 328 | Surface Termination Dependent Work Function and Electronic Properties of Ti ₃ C ₂ T _x MXene. <i>Chemistry of Materials</i> , 2019 , 31, 6590-6597 | 9.6 | 169 |
| 327 | Superfast high-energy storage hybrid device composed of MXene and Chevrel-phase electrodes operated in saturated LiCl electrolyte solution. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 19761-19773 | 13 | 24 |
| 326 | Electrochemical Behavior of Ti C T MXene in Environmentally Friendly Methanesulfonic Acid Electrolyte. <i>ChemSusChem</i> , 2019 , 12, 4480-4486 | 8.3 | 10 |
| 325 | Interfacial Assembly of Ultrathin, Functional MXene Films. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 32320-32327 | 9.5 | 46 |
| 324 | Diffusion-Induced Transient Stresses in Li-Battery Electrodes Imaged by Electrochemical Quartz Crystal Microbalance with Dissipation Monitoring and Environmental Scanning Electron Microscopy. <i>ACS Energy Letters</i> , 2019 , 4, 1907-1917 | 20.1 | 15 |
| 323 | Surface-Modified Metallic Ti ₃ C ₂ T _x MXene as Electron Transport Layer for Planar Heterojunction Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2019 , 29, 1905694 | 15.6 | 67 |
| 322 | Sculpting Liquids with Two-Dimensional Materials: The Assembly of TiCT MXene Sheets at Liquid-Liquid Interfaces. <i>ACS Nano</i> , 2019 , 13, 12385-12392 | 16.7 | 30 |
| 321 | MXenes for Transparent Conductive Electrodes and Transparent Energy Storage Devices 2019 , 481-501 | | 1 |
| 320 | High capacity silicon anodes enabled by MXene viscous aqueous ink. <i>Nature Communications</i> , 2019 , 10, 849 | 17.4 | 174 |

| | | | |
|-----|---|------|-----|
| 319 | Mechanically strong and electrically conductive multilayer MXene nanocomposites. <i>Nanoscale</i> , 2019 , 11, 20295-20300 | 7.7 | 52 |
| 318 | Conducting and Lithiophilic MXene/Graphene Framework for High-Capacity, Dendrite-Free Lithium-Metal Anodes. <i>ACS Nano</i> , 2019 , 13, 14308-14318 | 16.7 | 97 |
| 317 | Energy storage: The future enabled by nanomaterials. <i>Science</i> , 2019 , 366, | 33.3 | 564 |
| 316 | Direct Writing of Additive-Free MXene-in-Water Ink for Electronics and Energy Storage. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800256 | 6.8 | 78 |
| 315 | MXene-Conducting Polymer Asymmetric Pseudocapacitors. <i>Advanced Energy Materials</i> , 2019 , 9, 1802917 | 21.8 | 164 |
| 314 | Bipolar carbide-carbon high voltage aqueous lithium-ion capacitors. <i>Nano Energy</i> , 2019 , 56, 151-159 | 17.1 | 50 |
| 313 | Ag nanoparticles enhanced vertically-aligned CuO nanowire arrays grown on Cu foam for stable hybrid supercapacitors with high energy density. <i>Electrochimica Acta</i> , 2019 , 296, 535-544 | 6.7 | 37 |
| 312 | MXene/Polymer Hybrid Materials for Flexible AC-Filtering Electrochemical Capacitors. <i>Joule</i> , 2019 , 3, 164-176 | 27.8 | 153 |
| 311 | Surface-Engineered MXenes: Electric Field Control of Magnetism and Enhanced Magnetic Anisotropy. <i>ACS Nano</i> , 2019 , 13, 2831-2839 | 16.7 | 75 |
| 310 | Computational Screening of MXene Electrodes for Pseudocapacitive Energy Storage. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 315-321 | 3.8 | 47 |
| 309 | Graphene and MXene-based transparent conductive electrodes and supercapacitors. <i>Energy Storage Materials</i> , 2019 , 16, 102-125 | 19.4 | 217 |
| 308 | Understanding the MXene Pseudocapacitance. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 1223-1228 | 6.4 | 133 |
| 307 | Rheological Characteristics of 2D Titanium Carbide (MXene) Dispersions: A Guide for Processing MXenes. <i>ACS Nano</i> , 2018 , 12, 2685-2694 | 16.7 | 155 |
| 306 | Synergistically enhanced lithium storage performance based on titanium carbide nanosheets (MXene) backbone and SnO ₂ quantum dots. <i>Electrochimica Acta</i> , 2018 , 268, 503-511 | 6.7 | 54 |
| 305 | Effect of glycine functionalization of 2D titanium carbide (MXene) on charge storage. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 4617-4622 | 13 | 74 |
| 304 | Selective Etching of Silicon from Ti SiC (MAX) To Obtain 2D Titanium Carbide (MXene). <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 5444-5448 | 16.4 | 185 |
| 303 | Room-temperature vertically-aligned copper oxide nanoblades synthesized by electrochemical restructuring of copper hydroxide nanorods: An electrode for high energy density hybrid device. <i>Journal of Power Sources</i> , 2018 , 383, 124-132 | 8.9 | 34 |
| 302 | 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 |

| | | | |
|-----|--|------|-----|
| 301 | Mixed Ionic Liquid Improves Electrolyte Dynamics in Supercapacitors. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 10476-10481 | 3.8 | 40 |
| 300 | Enhanced Terahertz Shielding of MXenes with Nano-Metamaterials. <i>Advanced Optical Materials</i> , 2018 , 6, 1701076 | 8.1 | 100 |
| 299 | Ultrahigh-flux and fouling-resistant membranes based on layered silver/MXene (Ti ₃ C ₂ T _x) nanosheets. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 3522-3533 | 13 | 227 |
| 298 | Porous Ti ₃ C ₂ T _x MXene for Ultrahigh-Rate Sodium-Ion Storage with Long Cycle Life. <i>ACS Applied Nano Materials</i> , 2018 , 1, 505-511 | 5.6 | 88 |
| 297 | All Pseudocapacitive MXene-RuO ₂ Asymmetric Supercapacitors. <i>Advanced Energy Materials</i> , 2018 , 8, 1703043 | 21.8 | 459 |
| 296 | Metallic TiCT MXene Gas Sensors with Ultrahigh Signal-to-Noise Ratio. <i>ACS Nano</i> , 2018 , 12, 986-993 | 16.7 | 664 |
| 295 | MoS ₂ -on-MXene Heterostructures as Highly Reversible Anode Materials for Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2018 , 130, 1864-1868 | 3.6 | 56 |
| 294 | MoS ₂ -on-MXene Heterostructures as Highly Reversible Anode Materials for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 1846-1850 | 16.4 | 375 |
| 293 | Tuning the Basal Plane Functionalization of Two-Dimensional Metal Carbides (MXenes) To Control Hydrogen Evolution Activity. <i>ACS Applied Energy Materials</i> , 2018 , 1, 173-180 | 6.1 | 192 |
| 292 | Highly Broadband Absorber Using Plasmonic Titanium Carbide (MXene). <i>ACS Photonics</i> , 2018 , 5, 1115-1123 | 10.3 | 162 |
| 291 | MXene molecular sieving membranes for highly efficient gas separation. <i>Nature Communications</i> , 2018 , 9, 155 | 17.4 | 530 |
| 290 | Saturable Absorption in 2D Ti ₃ C ₂ MXene Thin Films for Passive Photonic Diodes. <i>Advanced Materials</i> , 2018 , 30, 1705714 | 24 | 213 |
| 289 | Stamping of Flexible, Coplanar Micro-Supercapacitors Using MXene Inks. <i>Advanced Functional Materials</i> , 2018 , 28, 1705506 | 15.6 | 322 |
| 288 | Self-Assembly of Transition Metal Oxide Nanostructures on MXene Nanosheets for Fast and Stable Lithium Storage. <i>Advanced Materials</i> , 2018 , 30, e1707334 | 24 | 324 |
| 287 | 2D Titanium Carbide/Reduced Graphene Oxide Heterostructures for Supercapacitor Applications. <i>Batteries and Supercaps</i> , 2018 , 1, 33-38 | 5.6 | 52 |
| 286 | Selective Etching of Silicon from Ti ₃ SiC ₂ (MAX) To Obtain 2D Titanium Carbide (MXene). <i>Angewandte Chemie</i> , 2018 , 130, 5542-5546 | 3.6 | 56 |
| 285 | Size-Dependent Physical and Electrochemical Properties of Two-Dimensional MXene Flakes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 24491-24498 | 9.5 | 150 |
| 284 | Moving ions confined between graphene sheets. <i>Nature Nanotechnology</i> , 2018 , 13, 625-627 | 28.7 | 15 |

| | | | |
|-----|---|------|-----|
| 283 | Graphene-Based Materials for the Fast Removal of Cytokines from Blood Plasma.. <i>ACS Applied Bio Materials</i> , 2018 , 1, 436-443 | 4.1 | 14 |
| 282 | Adsorption of Bovine Serum Albumin on Carbon-Based Materials. <i>Journal of Carbon Research</i> , 2018 , 4, 3 | 3.3 | 21 |
| 281 | High-Performance Biscrolled MXene/Carbon Nanotube Yarn Supercapacitors. <i>Small</i> , 2018 , 14, e180222511 | 11.4 | 114 |
| 280 | Vertically aligned MoS2 on Ti3C2 (MXene) as an improved HER catalyst. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 16882-16889 | 1.3 | 89 |
| 279 | Direct Correlation of MXene Surface Chemistry and Electronic Properties. <i>Microscopy and Microanalysis</i> , 2018 , 24, 1606-1607 | 0.5 | 5 |
| 278 | Elastic properties of 2D TiCT MXene monolayers and bilayers. <i>Science Advances</i> , 2018 , 4, eaat0491 | 14.3 | 380 |
| 277 | Tuning Noncollinear Spin Structure and Anisotropy in Ferromagnetic Nitride MXenes. <i>ACS Nano</i> , 2018 , 12, 6319-6325 | 16.7 | 73 |
| 276 | MXene-Bonded Activated Carbon as a Flexible Electrode for High-Performance Supercapacitors. <i>ACS Energy Letters</i> , 2018 , 3, 1597-1603 | 20.1 | 265 |
| 275 | In situ atomistic insight into the growth mechanisms of single layer 2D transition metal carbides. <i>Nature Communications</i> , 2018 , 9, 2266 | 17.4 | 89 |
| 274 | Direct Assessment of Nanoconfined Water in 2D TiC Electrode Interspaces by a Surface Acoustic Technique. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8910-8917 | 16.4 | 66 |
| 273 | Inkjet Printing of Self-Assembled 2D Titanium Carbide and Protein Electrodes for Stimuli-Responsive Electromagnetic Shielding. <i>Advanced Functional Materials</i> , 2018 , 28, 1801972 | 15.6 | 111 |
| 272 | Asymmetric Flexible MXene-Reduced Graphene Oxide Micro-Supercapacitor. <i>Advanced Electronic Materials</i> , 2018 , 4, 1700339 | 6.4 | 244 |
| 271 | Metallic MXenes: A new family of materials for flexible triboelectric nanogenerators. <i>Nano Energy</i> , 2018 , 44, 103-110 | 17.1 | 178 |
| 270 | Topochemical synthesis of 2D materials. <i>Chemical Society Reviews</i> , 2018 , 47, 8744-8765 | 58.5 | 142 |
| 269 | Electronic and Optical Properties of 2D Transition Metal Carbides and Nitrides (MXenes). <i>Advanced Materials</i> , 2018 , 30, e1804779 | 24 | 464 |
| 268 | Humidity Exposure Enhances Microscopic Mobility in a Room-Temperature Ionic Liquid in MXene. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 27561-27566 | 3.8 | 11 |
| 267 | Single platinum atoms immobilized on an MXene as an efficient catalyst for the hydrogen evolution reaction. <i>Nature Catalysis</i> , 2018 , 1, 985-992 | 36.5 | 739 |
| 266 | Automated Scalpel Patterning of Solution Processed Thin Films for Fabrication of Transparent MXene Microsupercapacitors. <i>Small</i> , 2018 , 14, e1802864 | 11 | 62 |

| | | | |
|-----|--|-------|------|
| 265 | Titanium Carbide (MXene) as a Current Collector for Lithium-Ion Batteries. <i>ACS Omega</i> , 2018 , 3, 12489-12494 | 3.9 | 41 |
| 264 | MXene Sorbents for Removal of Urea from Dialysate: A Step toward the Wearable Artificial Kidney. <i>ACS Nano</i> , 2018 , 12, 10518-10528 | 16.7 | 102 |
| 263 | 2D titanium carbide (MXene) for wireless communication. <i>Science Advances</i> , 2018 , 4, eaau0920 | 14.3 | 219 |
| 262 | Thermally Reduced Graphene/MXene Film for Enhanced Li-ion Storage. <i>Chemistry - A European Journal</i> , 2018 , 24, 18556-18563 | 4.8 | 43 |
| 261 | Perfusion double-channel micropipette probes for oxygen flux mapping with single-cell resolution. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 850-860 | 3 | 1 |
| 260 | Layer-by-Layer Assembly of Cross-Functional Semi-transparent MXene-Carbon Nanotubes Composite Films for Next-Generation Electromagnetic Interference Shielding. <i>Advanced Functional Materials</i> , 2018 , 28, 1803360 | 15.6 | 270 |
| 259 | Two-Dimensional TiC MXene for High-Resolution Neural Interfaces. <i>ACS Nano</i> , 2018 , 12, 10419-10429 | 16.7 | 82 |
| 258 | Effect of Synthesis on Performance of MXene/Iron Oxide Anode Material for Lithium-Ion Batteries. <i>Langmuir</i> , 2018 , 34, 11325-11334 | 4 | 34 |
| 257 | Antimicrobial Properties of 2D MnO and MoS Nanomaterials Vertically Aligned on Graphene Materials and TiC MXene. <i>Langmuir</i> , 2018 , 34, 7192-7200 | 4 | 86 |
| 256 | Screen-printable microscale hybrid device based on MXene and layered double hydroxide electrodes for powering force sensors. <i>Nano Energy</i> , 2018 , 50, 479-488 | 17.1 | 121 |
| 255 | Thickness-independent capacitance of vertically aligned liquid-crystalline MXenes. <i>Nature</i> , 2018 , 557, 409-412 | 50.4 | 627 |
| 254 | 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 |
| 253 | Cold Sintered Ceramic Nanocomposites of 2D MXene and Zinc Oxide. <i>Advanced Materials</i> , 2018 , 30, e1801846 | 21.46 | 104 |
| 252 | Two-Dimensional Titanium Carbide MXene As a Cathode Material for Hybrid Magnesium/Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 4296-4300 | 9.5 | 149 |
| 251 | Salt-Templated Synthesis of 2D Metallic MoN and Other Nitrides. <i>ACS Nano</i> , 2017 , 11, 2180-2186 | 16.7 | 246 |
| 250 | 2D metal carbides and nitrides (MXenes) for energy storage. <i>Nature Reviews Materials</i> , 2017 , 2, | 73.3 | 3469 |
| 249 | Dispersions of Two-Dimensional Titanium Carbide MXene in Organic Solvents. <i>Chemistry of Materials</i> , 2017 , 29, 1632-1640 | 9.6 | 421 |
| 248 | Interaction of Polar and Nonpolar Polyfluorenes with Layers of Two-Dimensional Titanium Carbide (MXene): Intercalation and Pseudocapacitance. <i>Chemistry of Materials</i> , 2017 , 29, 2731-2738 | 9.6 | 128 |

| | | | |
|-----|---|------|-----|
| 247 | Direct observation of active material interactions in flowable electrodes using X-ray tomography. <i>Faraday Discussions</i> , 2017 , 199, 511-524 | 3.6 | 38 |
| 246 | Synergetic effects of K and Mg ion intercalation on the electrochemical and actuation properties of the two-dimensional TiC MXene. <i>Faraday Discussions</i> , 2017 , 199, 393-403 | 3.6 | 50 |
| 245 | Recent Developments and Prospects of Nanostructured Supercapacitors 2017 , 391-404 | | 2 |
| 244 | Charge transfer induced polymerization of EDOT confined between 2D titanium carbide layers. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 5260-5265 | 13 | 107 |
| 243 | Li-ion uptake and increase in interlayer spacing of Nb ₄ C ₃ MXene. <i>Energy Storage Materials</i> , 2017 , 8, 42-48 | 19.4 | 120 |
| 242 | High and Stable Ionic Conductivity in 2D Nanofluidic Ion Channels between Boron Nitride Layers. <i>Journal of the American Chemical Society</i> , 2017 , 139, 6314-6320 | 16.4 | 127 |
| 241 | In Situ Monitoring of Gravimetric and Viscoelastic Changes in 2D Intercalation Electrodes. <i>ACS Energy Letters</i> , 2017 , 2, 1407-1415 | 20.1 | 48 |
| 240 | The role of ceramic and glass science research in meeting societal challenges: Report from an NSF-sponsored workshop. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 1777-1803 | 3.8 | 17 |
| 239 | Oxidation Stability of Colloidal Two-Dimensional Titanium Carbides (MXenes). <i>Chemistry of Materials</i> , 2017 , 29, 4848-4856 | 9.6 | 652 |
| 238 | Efficient Antibacterial Membrane based on Two-Dimensional TiCT (MXene) Nanosheets. <i>Scientific Reports</i> , 2017 , 7, 1598 | 4.9 | 184 |
| 237 | Laminated and Two-Dimensional Carbon-Supported Microwave Absorbers Derived from MXenes. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 20038-20045 | 9.5 | 229 |
| 236 | Designing Pseudocapacitance for NbO/Carbide-Derived Carbon Electrodes and Hybrid Devices. <i>Langmuir</i> , 2017 , 33, 9407-9415 | 4 | 56 |
| 235 | Tunable Magnetism and Transport Properties in Nitride MXenes. <i>ACS Nano</i> , 2017 , 11, 7648-7655 | 16.7 | 190 |
| 234 | Two-dimensional heterostructures for energy storage. <i>Nature Energy</i> , 2017 , 2, | 62.3 | 552 |
| 233 | Environmental Friendly Scalable Production of Colloidal 2D Titanium Carbonitride MXene with Minimized Nanosheets Restacking for Excellent Cycle Life Lithium-Ion Batteries. <i>Electrochimica Acta</i> , 2017 , 235, 690-699 | 6.7 | 129 |
| 232 | Engineering Ultrathin Polyaniline in Micro/Mesoporous Carbon Supercapacitor Electrodes Using Oxidative Chemical Vapor Deposition. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1601201 | 4.6 | 57 |
| 231 | Diverse Applications of Nanomedicine. <i>ACS Nano</i> , 2017 , 11, 2313-2381 | 16.7 | 714 |
| 230 | High-Throughput Survey of Ordering Configurations in MXene Alloys Across Compositions and Temperatures. <i>ACS Nano</i> , 2017 , 11, 4407-4418 | 16.7 | 97 |

| | | | |
|-----|---|------|------|
| 229 | Rational Design of Two-Dimensional Metallic and Semiconducting Spintronic Materials Based on Ordered Double-Transition-Metal MXenes. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 422-428 | 6.4 | 115 |
| 228 | Solvent Polarity Governs Ion Interactions and Transport in a Solvated Room-Temperature Ionic Liquid. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 167-171 | 6.4 | 35 |
| 227 | 2D Materials: Metallic MXene Saturable Absorber for Femtosecond Mode-Locked Lasers (Adv. Mater. 40/2017). <i>Advanced Materials</i> , 2017 , 29, | 24 | 1 |
| 226 | First-Principles Calculations of Ti ₂ N and Ti ₂ NT ₂ (T = O, F, OH) Monolayers as Potential Anode Materials for Lithium-Ion Batteries and Beyond. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 13025-13034 | 3.8 | 99 |
| 225 | Guidelines for Synthesis and Processing of Two-Dimensional Titanium Carbide (Ti ₃ C ₂ T _x MXene). <i>Chemistry of Materials</i> , 2017 , 29, 7633-7644 | 9.6 | 1689 |
| 224 | Two-Dimensional Titanium Carbide (MXene) as Surface-Enhanced Raman Scattering Substrate. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 19983-19988 | 3.8 | 179 |
| 223 | 2D metal carbides (MXenes) in fibers. <i>Materials Today</i> , 2017 , 20, 481-482 | 21.8 | 20 |
| 222 | Nanodiamonds suppress the growth of lithium dendrites. <i>Nature Communications</i> , 2017 , 8, 336 | 17.4 | 257 |
| 221 | Hollow MXene Spheres and 3D Macroporous MXene Frameworks for Na-Ion Storage. <i>Advanced Materials</i> , 2017 , 29, 1702410 | 24 | 465 |
| 220 | Flexible MXene-graphene electrodes with high volumetric capacitance for integrated co-cathode energy conversion/storage devices. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 17442-17451 | 13 | 150 |
| 219 | Transparent, Flexible, and Conductive 2D Titanium Carbide (MXene) Films with High Volumetric Capacitance. <i>Advanced Materials</i> , 2017 , 29, 1702678 | 24 | 538 |
| 218 | Metallic MXene Saturable Absorber for Femtosecond Mode-Locked Lasers. <i>Advanced Materials</i> , 2017 , 29, 1702496 | 24 | 295 |
| 217 | Na-Ion Intercalation and Charge Storage Mechanism in 2D Vanadium Carbide. <i>Advanced Energy Materials</i> , 2017 , 7, 1700959 | 21.8 | 113 |
| 216 | 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 |
| 215 | Enabling high-rate electrochemical flow capacitors based on mesoporous carbon microspheres suspension electrodes. <i>Journal of Power Sources</i> , 2017 , 364, 182-190 | 8.9 | 16 |
| 214 | Atomic Defects and Edge Structure in Single-layer Ti ₃ C ₂ T _x MXene. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1704-1705 | 0.5 | 6 |
| 213 | Selective Charging Behavior in an Ionic Mixture Electrolyte-Supercapacitor System for Higher Energy and Power. <i>Journal of the American Chemical Society</i> , 2017 , 139, 18681-18687 | 16.4 | 76 |
| 212 | BN Nanosheet/Polymer Films with Highly Anisotropic Thermal Conductivity for Thermal Management Applications. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 43163-43170 | 9.5 | 145 |

| | | | |
|-----|--|------|------|
| 211 | Investigation of chloride ion adsorption onto Ti ₂ C MXene monolayers by first-principles calculations. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 24720-24727 | 13 | 40 |
| 210 | 2D molybdenum and vanadium nitrides synthesized by ammoniation of 2D transition metal carbides (MXenes). <i>Nanoscale</i> , 2017 , 9, 17722-17730 | 7.7 | 192 |
| 209 | Selective Molecular Separation on TiCT-Graphene Oxide Membranes during Pressure-Driven Filtration: Comparison with Graphene Oxide and MXenes. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 44687-44694 | 9.5 | 116 |
| 208 | Ultra-high-rate pseudocapacitive energy storage in two-dimensional transition metal carbides. <i>Nature Energy</i> , 2017 , 2, | 62.3 | 1071 |
| 207 | Thermoelectric Properties of Two-Dimensional Molybdenum-Based MXenes. <i>Chemistry of Materials</i> , 2017 , 29, 6472-6479 | 9.6 | 163 |
| 206 | Flexible MXene/Graphene Films for Ultrafast Supercapacitors with Outstanding Volumetric Capacitance. <i>Advanced Functional Materials</i> , 2017 , 27, 1701264 | 15.6 | 934 |
| 205 | An Atomistic Carbide-Derived Carbon Model Generated Using ReaxFF-Based Quenched Molecular Dynamics. <i>Journal of Carbon Research</i> , 2017 , 3, 32 | 3.3 | 9 |
| 204 | Evidence of molecular hydrogen trapped in two-dimensional layered titanium carbide-based MXene. <i>Physical Review Materials</i> , 2017 , 1, | 3.2 | 13 |
| 203 | Influence of humidity on performance and microscopic dynamics of an ionic liquid in supercapacitor. <i>Physical Review Materials</i> , 2017 , 1, | 3.2 | 12 |
| 202 | Influence of metal ions intercalation on the vibrational dynamics of water confined between MXene layers. <i>Physical Review Materials</i> , 2017 , 1, | 3.2 | 35 |
| 201 | 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 |
| 200 | Solution-processed titanium carbide MXene films examined as highly transparent conductors. <i>Nanoscale</i> , 2016 , 8, 16371-16378 | 7.7 | 165 |
| 199 | Calorimetric Determination of Thermodynamic Stability of MAX and MXene Phases. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 28131-28137 | 3.8 | 28 |
| 198 | Ti ₃ C ₂ T _x (MXene)/polyacrylamide nanocomposite films. <i>RSC Advances</i> , 2016 , 6, 72069-72073 | 3.7 | 112 |
| 197 | Multidimensional materials and device architectures for future hybrid energy storage. <i>Nature Communications</i> , 2016 , 7, 12647 | 17.4 | 992 |
| 196 | Electrochemical in Situ Tracking of Volumetric Changes in Two-Dimensional Metal Carbides (MXenes) in Ionic Liquids. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 32089-32093 | 9.5 | 60 |
| 195 | Nanoarchitected Nb ₂ O ₅ hollow, Nb ₂ O ₅ @carbon and NbO ₂ @carbon Core-Shell Microspheres for Ultrahigh-Rate Intercalation Pseudocapacitors. <i>Scientific Reports</i> , 2016 , 6, 21177 | 4.9 | 97 |
| 194 | Scalable salt-templated synthesis of two-dimensional transition metal oxides. <i>Nature Communications</i> , 2016 , 7, 11296 | 17.4 | 300 |

| | | | |
|-----|--|------|-----|
| 193 | 2D titanium carbide and transition metal oxides hybrid electrodes for Li-ion storage. <i>Nano Energy</i> , 2016 , 30, 603-613 | 17.1 | 229 |
| 192 | One-step Solution Processing of Ag, Au and Pd@MXene Hybrids for SERS. <i>Scientific Reports</i> , 2016 , 6, 32049 | 4.9 | 200 |
| 191 | Effect of Synthesis on Quality, Electronic Properties and Environmental Stability of Individual Monolayer Ti ₃ C ₂ MXene Flakes. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600255 | 6.4 | 649 |
| 190 | Demonstration of Li-Ion Capacity of MAX Phases. <i>ACS Energy Letters</i> , 2016 , 1, 1094-1099 | 20.1 | 37 |
| 189 | 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 |
| 188 | Nanoscale Elastic Changes in 2D Ti ₃ C ₂ T _x (MXene) Pseudocapacitive Electrodes. <i>Advanced Energy Materials</i> , 2016 , 6, 1502290 | 21.8 | 92 |
| 187 | Two-Dimensional Nb-Based M ₄ C ₃ Solid Solutions (MXenes). <i>Journal of the American Ceramic Society</i> , 2016 , 99, 660-666 | 3.8 | 153 |
| 186 | Porous heterostructured MXene/carbon nanotube composite paper with high volumetric capacity for sodium-based energy storage devices. <i>Nano Energy</i> , 2016 , 26, 513-523 | 17.1 | 505 |
| 185 | Nitrogen-enriched meso-macroporous carbon fiber network as a binder-free flexible electrode for supercapacitors. <i>Carbon</i> , 2016 , 107, 629-637 | 10.4 | 113 |
| 184 | Anodized Ti ₃ SiC ₂ As an Anode Material for Li-ion Microbatteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 16670-6 | 9.5 | 28 |
| 183 | NMR reveals the surface functionalisation of Ti ₃ C ₂ MXene. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 5099-102 | 3.6 | 491 |
| 182 | Layered carbide-derived carbon with hierarchically porous structure for high rate lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2016 , 188, 385-392 | 6.7 | 43 |
| 181 | Resolving the Structure of Ti ₃ C ₂ T _x MXenes through Multilevel Structural Modeling of the Atomic Pair Distribution Function. <i>Chemistry of Materials</i> , 2016 , 28, 349-359 | 9.6 | 267 |
| 180 | X-ray photoelectron spectroscopy of select multi-layered transition metal carbides (MXenes). <i>Applied Surface Science</i> , 2016 , 362, 406-417 | 6.7 | 834 |
| 179 | Effect of Metal Ion Intercalation on the Structure of MXene and Water Dynamics on its Internal Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 8859-63 | 9.5 | 164 |
| 178 | The adsorption of tetracycline and vancomycin onto nanodiamond with controlled release. <i>Journal of Colloid and Interface Science</i> , 2016 , 468, 253-261 | 9.3 | 64 |
| 177 | Antibacterial Activity of Ti ₃ C ₂ T _x MXene. <i>ACS Nano</i> , 2016 , 10, 3674-84 | 16.7 | 555 |
| 176 | Control of electronic properties of 2D carbides (MXenes) by manipulating their transition metal layers. <i>Nanoscale Horizons</i> , 2016 , 1, 227-234 | 10.8 | 242 |

| | | | |
|-----|---|------|-----|
| 175 | 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 |
| 174 | H ₂ O ₂ assisted room temperature oxidation of Ti ₂ C MXene for Li-ion battery anodes. <i>Nanoscale</i> , 2016 , 8, 7580-7 | 7.7 | 287 |
| 173 | Capacitance of two-dimensional titanium carbide (MXene) and MXene/carbon nanotube composites in organic electrolytes. <i>Journal of Power Sources</i> , 2016 , 306, 510-515 | 8.9 | 182 |
| 172 | Synthesis of Two-Dimensional Materials for Capacitive Energy Storage. <i>Advanced Materials</i> , 2016 , 28, 6104-35 | 24 | 441 |
| 171 | Synthesis and Characterization of 2D Molybdenum Carbide (MXene). <i>Advanced Functional Materials</i> , 2016 , 26, 3118-3127 | 15.6 | 640 |
| 170 | Fabrication of Ti ₃ C ₂ T _x MXene Transparent Thin Films with Tunable Optoelectronic Properties. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600050 | 6.4 | 407 |
| 169 | MoS ₂ Nanosheets Vertically Aligned on Carbon Paper: A Freestanding Electrode for Highly Reversible Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2016 , 6, 1502161 | 21.8 | 402 |
| 168 | Highly Conductive Optical Quality Solution-Processed Films of 2D Titanium Carbide. <i>Advanced Functional Materials</i> , 2016 , 26, 4162-4168 | 15.6 | 470 |
| 167 | Pseudocapacitive Electrodes Produced by Oxidant-Free Polymerization of Pyrrole between the Layers of 2D Titanium Carbide (MXene). <i>Advanced Materials</i> , 2016 , 28, 1517-22 | 24 | 614 |
| 166 | Porous Two-Dimensional Transition Metal Carbide (MXene) Flakes for High-Performance Li-Ion Storage. <i>ChemElectroChem</i> , 2016 , 3, 689-693 | 4.3 | 298 |
| 165 | Effects of Applied Potential and Water Intercalation on the Surface Chemistry of Ti ₂ C and Mo ₂ C MXenes. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 28432-28440 | 3.8 | 80 |
| 164 | MXene Materials: Effect of Synthesis on Quality, Electronic Properties and Environmental Stability of Individual Monolayer Ti ₃ C ₂ MXene Flakes (Adv. Electron. Mater. 12/2016). <i>Advanced Electronic Materials</i> , 2016 , 2, | 6.4 | 9 |
| 163 | Synthesis and Charge Storage Properties of Hierarchical Niobium Pentoxide/Carbon/Niobium Carbide (MXene) Hybrid Materials. <i>Chemistry of Materials</i> , 2016 , 28, 3937-3943 | 9.6 | 172 |
| 162 | Synthesis of two-dimensional titanium nitride Ti ₄ N ₃ (MXene). <i>Nanoscale</i> , 2016 , 8, 11385-91 | 7.7 | 487 |
| 161 | Influence of Surface Oxidation on Ion Dynamics and Capacitance in Porous and Nonporous Carbon Electrodes. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 8730-8741 | 3.8 | 34 |
| 160 | Pseudocapacitance and excellent cyclability of 2,5-dimethoxy-1,4-benzoquinone on graphene. <i>Energy and Environmental Science</i> , 2016 , 9, 2586-2594 | 35.4 | 101 |
| 159 | Ion-Exchange and Cation Solvation Reactions in Ti ₃ C ₂ MXene. <i>Chemistry of Materials</i> , 2016 , 28, 3507-3514 | 14.6 | 361 |
| 158 | Ethanol reduced molybdenum trioxide for Li-ion capacitors. <i>Nano Energy</i> , 2016 , 26, 100-107 | 17.1 | 60 |

| | | | |
|-----|--|------|------|
| 157 | MXene-on-Paper Coplanar Microsupercapacitors. <i>Advanced Energy Materials</i> , 2016 , 6, 1601372 | 21.8 | 269 |
| 156 | Atomic Defects in Monolayer Titanium Carbide (TiCT) MXene. <i>ACS Nano</i> , 2016 , 10, 9193-9200 | 16.7 | 465 |
| 155 | Electromagnetic interference shielding with 2D transition metal carbides (MXenes). <i>Science</i> , 2016 , 353, 1137-40 | 33.3 | 2432 |
| 154 | Nano Day: Celebrating the Next Decade of Nanoscience and Nanotechnology. <i>ACS Nano</i> , 2016 , 10, 9093-9103 | 16.3 | 56 |
| 153 | All-MXene (2D titanium carbide) solid-state microsupercapacitors for on-chip energy storage. <i>Energy and Environmental Science</i> , 2016 , 9, 2847-2854 | 35.4 | 428 |
| 152 | Two-Dimensional Molybdenum Carbide (MXene) as an Efficient Electrocatalyst for Hydrogen Evolution. <i>ACS Energy Letters</i> , 2016 , 1, 589-594 | 20.1 | 752 |
| 151 | Synthesis of carbon/sulfur nanolaminates by electrochemical extraction of titanium from Ti ₃ C ₂ . <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 4810-4 | 16.4 | 81 |
| 150 | Two-Dimensional, Ordered, Double Transition Metals Carbides (MXenes). <i>ACS Nano</i> , 2015 , 9, 9507-16 | 16.7 | 923 |
| 149 | Intercalation of cations into partially reduced molybdenum oxide for high-rate pseudocapacitors. <i>Energy Storage Materials</i> , 2015 , 1, 1-8 | 19.4 | 80 |
| 148 | Amine-Assisted Delamination of Nb ₂ C MXene for Li-Ion Energy Storage Devices. <i>Advanced Materials</i> , 2015 , 27, 3501-6 | 24 | 555 |
| 147 | Synthesis of Carbon/Sulfur Nanolaminates by Electrochemical Extraction of Titanium from Ti ₂ SC. <i>Angewandte Chemie</i> , 2015 , 127, 4892-4896 | 3.6 | 19 |
| 146 | Formulation of ionic-liquid electrolyte to expand the voltage window of supercapacitors. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 4806-9 | 16.4 | 188 |
| 145 | High mass loading, binder-free MXene anodes for high areal capacity Li-ion batteries. <i>Electrochimica Acta</i> , 2015 , 163, 246-251 | 6.7 | 169 |
| 144 | New Insights into the Structure of Nanoporous Carbons from NMR, Raman, and Pair Distribution Function Analysis. <i>Chemistry of Materials</i> , 2015 , 27, 6848-6857 | 9.6 | 68 |
| 143 | Free-Standing T-Nb ₂ C/Graphene Composite Papers with Ultrahigh Gravimetric/Volumetric Capacitance for Li-Ion Intercalation Pseudocapacitor. <i>ACS Nano</i> , 2015 , 9, 11200-8 | 16.7 | 309 |
| 142 | Charge- and Size-Selective Ion Sieving Through Ti ₃ C ₂ T _x MXene Membranes. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 4026-31 | 6.4 | 515 |
| 141 | Chemical vapour deposition: Transition metal carbides go 2D. <i>Nature Materials</i> , 2015 , 14, 1079-80 | 27 | 213 |
| 140 | Boron nitride colloidal solutions, ultralight aerogels and freestanding membranes through one-step exfoliation and functionalization. <i>Nature Communications</i> , 2015 , 6, 8849 | 17.4 | 486 |

| | | | |
|-----|--|------|-----|
| 139 | Natural Fiber Welded Electrode Yarns for Knittable Textile Supercapacitors. <i>Advanced Energy Materials</i> , 2015 , 5, 1401286 | 21.8 | 126 |
| 138 | Flexible MXene/carbon nanotube composite paper with high volumetric capacitance. <i>Advanced Materials</i> , 2015 , 27, 339-45 | 24 | 860 |
| 137 | Enhanced electrochemical performances of mesoporous carbon microsphere/selenium composites by controlling the pore structure and nitrogen doping. <i>Electrochimica Acta</i> , 2015 , 153, 140-148 | 6.7 | 41 |
| 136 | Synthesis of two-dimensional materials by selective extraction. <i>Accounts of Chemical Research</i> , 2015 , 48, 128-35 | 24.3 | 456 |
| 135 | Foldable supercapacitors from triple networks of macroporous cellulose fibers, single-walled carbon nanotubes and polyaniline nanoribbons. <i>Nano Energy</i> , 2015 , 11, 568-578 | 17.1 | 158 |
| 134 | Al-doped MnO ₂ for high mass-loading pseudocapacitor with excellent cycling stability. <i>Nano Energy</i> , 2015 , 11, 226-234 | 17.1 | 157 |
| 133 | Synthesis and electrochemical properties of niobium pentoxide deposited on layered carbide-derived carbon. <i>Journal of Power Sources</i> , 2015 , 274, 121-129 | 8.9 | 64 |
| 132 | Solving the Capacitive Paradox of 2D MXene using Electrochemical Quartz-Crystal Admittance and In Situ Electronic Conductance Measurements. <i>Advanced Energy Materials</i> , 2015 , 5, 1400815 | 21.8 | 225 |
| 131 | Electrochemistry and Electrocatalysis at Single Gold Nanoparticles Attached to Carbon Nanoelectrodes. <i>ChemElectroChem</i> , 2015 , 2, 58-63 | 4.3 | 69 |
| 130 | Not just graphene: The wonderful world of carbon and related nanomaterials. <i>MRS Bulletin</i> , 2015 , 40, 1110-1121 | 3.2 | 62 |
| 129 | Innentitelbild: Synthesis of Carbon/Sulfur Nanolaminates by Electrochemical Extraction of Titanium from Ti ₂ SC (Angew. Chem. 16/2015). <i>Angewandte Chemie</i> , 2015 , 127, 4764-4764 | 3.6 | |
| 128 | Probing the Mechanism of High Capacitance in 2D Titanium Carbide Using In Situ X-Ray Absorption Spectroscopy. <i>Advanced Energy Materials</i> , 2015 , 5, 1500589 | 21.8 | 374 |
| 127 | Understanding Defect-Stabilized Noncovalent Functionalization of Graphene. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500277 | 4.6 | 15 |
| 126 | Formulation of Ionic-Liquid Electrolyte To Expand the Voltage Window of Supercapacitors. <i>Angewandte Chemie</i> , 2015 , 127, 4888-4891 | 3.6 | 31 |
| 125 | Two-Dimensional Vanadium Carbide (MXene) as Positive Electrode for Sodium-Ion Capacitors. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 2305-9 | 6.4 | 294 |
| 124 | High rate capacitive performance of single-walled carbon nanotube aerogels. <i>Nano Energy</i> , 2015 , 15, 662-669 | 17.1 | 50 |
| 123 | Solid-phase synthesis, characterization, and cellular activities of collagen-model nanodiamond-peptide conjugates. <i>Biopolymers</i> , 2015 , 104, 186-95 | 2.2 | 14 |
| 122 | Molecular dynamic study of the mechanical properties of two-dimensional titanium carbides Ti _(n+1) C _(n) (MXenes). <i>Nanotechnology</i> , 2015 , 26, 265705 | 3.4 | 144 |

| | | | |
|-----|--|------|------|
| 121 | 25th anniversary article: MXenes: a new family of two-dimensional materials. <i>Advanced Materials</i> , 2014 , 26, 992-1005 | 24 | 3141 |
| 120 | Freestanding functionalized carbon nanotube-based electrode for solid-state asymmetric supercapacitors. <i>Nano Energy</i> , 2014 , 6, 1-9 | 17.1 | 166 |
| 119 | Layer-by-Layer Oxidation for Decreasing the Size of Detonation Nanodiamond. <i>Chemistry of Materials</i> , 2014 , 26, 3479-3484 | 9.6 | 37 |
| 118 | Enhanced electrochemical performance of hydrous RuO ₂ /mesoporous carbon nanocomposites via nitrogen doping. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 9751-9 | 9.5 | 57 |
| 117 | Materials science: Energy storage wrapped up. <i>Nature</i> , 2014 , 509, 568-70 | 50.4 | 141 |
| 116 | Structural Origins of Potential Dependent Hysteresis at the Electrified Graphene/Ionic Liquid Interface. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 569-574 | 3.8 | 96 |
| 115 | Flexible and conductive MXene films and nanocomposites with high capacitance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 16676-81 | 11.5 | 1204 |
| 114 | One-step synthesis of nanocrystalline transition metal oxides on thin sheets of disordered graphitic carbon by oxidation of MXenes. <i>Chemical Communications</i> , 2014 , 50, 7420-3 | 5.8 | 427 |
| 113 | High-power and high-energy asymmetric supercapacitors based on Li ⁺ -intercalation into a T-Nb ₂ O ₅ /graphene pseudocapacitive electrode. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 17962-17970 | 13 | 142 |
| 112 | TiO ₂ /MXene as a high capacity electrode material for metal (Li, Na, K, Ca) ion batteries. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 11173-9 | 9.5 | 847 |
| 111 | Effect of graphitic structure on electrochemical ion intercalation into positive and negative electrodes. <i>Journal of Solid State Electrochemistry</i> , 2014 , 18, 2673-2682 | 2.6 | 14 |
| 110 | Ring Current Effects: Factors Affecting the NMR Chemical Shift of Molecules Adsorbed on Porous Carbons. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 7508-7514 | 3.8 | 86 |
| 109 | Transparent Conductive Two-Dimensional Titanium Carbide Epitaxial Thin Films. <i>Chemistry of Materials</i> , 2014 , 26, 2374-2381 | 9.6 | 778 |
| 108 | Role of surface structure on Li-ion energy storage capacity of two-dimensional transition-metal carbides. <i>Journal of the American Chemical Society</i> , 2014 , 136, 6385-94 | 16.4 | 864 |
| 107 | Highly porous carbon spheres for electrochemical capacitors and capacitive flowable suspension electrodes. <i>Carbon</i> , 2014 , 77, 155-164 | 10.4 | 132 |
| 106 | Capacitive energy storage in micro-scale devices: recent advances in design and fabrication of micro-supercapacitors. <i>Energy and Environmental Science</i> , 2014 , 7, 867 | 35.4 | 961 |
| 105 | Composite manganese oxide percolating networks as a suspension electrode for an asymmetric flow capacitor. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 8886-93 | 9.5 | 88 |
| 104 | Room-Temperature Carbide-Derived Carbon Synthesis by Electrochemical Etching of MAX Phases. <i>Angewandte Chemie</i> , 2014 , 126, 4977-4980 | 3.6 | 23 |

| | | | |
|-----|---|------|------|
| 103 | Innentitelbild: Room-Temperature Carbide-Derived Carbon Synthesis by Electrochemical Etching of MAX Phases (Angew. Chem. 19/2014). <i>Angewandte Chemie</i> , 2014 , 126, 4820-4820 | 3.6 | |
| 102 | Freestanding MoO ₃ Nanobelt/carbon nanotube films for Li-ion intercalation pseudocapacitors. <i>Nano Energy</i> , 2014 , 9, 355-363 | 17.1 | 125 |
| 101 | Ion Intercalation into Graphitic Carbon with a Low Surface Area for High Energy Density Supercapacitors. <i>Journal of the Electrochemical Society</i> , 2014 , 161, A1486-A1494 | 3.9 | 22 |
| 100 | Two-Dimensional Materials: 25th Anniversary Article: MXenes: A New Family of Two-Dimensional Materials (Adv. Mater. 7/2014). <i>Advanced Materials</i> , 2014 , 26, 982-982 | 24 | 85 |
| 99 | Structure of nanocrystalline Ti ₃ C ₂ MXene using atomic pair distribution function. <i>Physical Review Letters</i> , 2014 , 112, 125501 | 7.4 | 129 |
| 98 | Conductive two-dimensional titanium carbide 'clay' with high volumetric capacitance. <i>Nature</i> , 2014 , 516, 78-81 | 50.4 | 2849 |
| 97 | Hollow graphitic carbon nanospheres: synthesis and properties. <i>Journal of Materials Science</i> , 2014 , 49, 1947-1956 | 4.3 | 13 |
| 96 | Materials science. Where do batteries end and supercapacitors begin?. <i>Science</i> , 2014 , 343, 1210-1 | 33.3 | 3680 |
| 95 | Structure and Electrochemical Performance of Carbide-Derived Carbon Nanopowders. <i>Advanced Functional Materials</i> , 2013 , 23, 1081-1089 | 15.6 | 153 |
| 94 | Knitted and screen printed carbon-fiber supercapacitors for applications in wearable electronics. <i>Energy and Environmental Science</i> , 2013 , 6, 2698 | 35.4 | 430 |
| 93 | Platinized carbon nanoelectrodes as potentiometric and amperometric SECM probes. <i>Journal of Solid State Electrochemistry</i> , 2013 , 17, 2971-2977 | 2.6 | 33 |
| 92 | New two-dimensional niobium and vanadium carbides as promising materials for Li-ion batteries. <i>Journal of the American Chemical Society</i> , 2013 , 135, 15966-9 | 16.4 | 1168 |
| 91 | Cation intercalation and high volumetric capacitance of two-dimensional titanium carbide. <i>Science</i> , 2013 , 341, 1502-5 | 33.3 | 2510 |
| 90 | Onion-like carbon and carbon nanotube film antennas. <i>Applied Physics Letters</i> , 2013 , 103, 073301 | 3.4 | 11 |
| 89 | High-performance symmetric electrochemical capacitor based on graphene foam and nanostructured manganese oxide. <i>AIP Advances</i> , 2013 , 3, 082118 | 1.5 | 73 |
| 88 | In situ tracking of the nanoscale expansion of porous carbon electrodes. <i>Energy and Environmental Science</i> , 2013 , 6, 225-231 | 35.4 | 57 |
| 87 | Photocatalytic WO ₃ and TiO ₂ Films on Brass. <i>International Journal of Applied Ceramic Technology</i> , 2013 , 10, 26-32 | 2 | 5 |
| 86 | Facile fabrication of MWCNT-doped NiCoAl-layered double hydroxide nanosheets with enhanced electrochemical performances. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 1963-1968 | 13 | 164 |

| | | | |
|----|--|------|------|
| 85 | Intercalation and delamination of layered carbides and carbonitrides. <i>Nature Communications</i> , 2013 , 4, 1716 | 17.4 | 1504 |
| 84 | Vertically Oriented Propylene Carbonate Molecules and Tetraethyl Ammonium Ions in Carbon Slit Pores. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 5752-5757 | 3.8 | 22 |
| 83 | Structure-activity relationship of Au/ZrO ₂ catalyst on formation of hydroxyl groups and its influence on CO oxidation. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 6051 | 13 | 31 |
| 82 | Electrical conductivity of thermally hydrogenated nanodiamond powders. <i>Journal of Applied Physics</i> , 2013 , 113, 214307 | 2.5 | 50 |
| 81 | Effect of defects on graphitization of SiC. <i>Journal of Materials Research</i> , 2013 , 28, 952-957 | 2.5 | 4 |
| 80 | Low Temperature Plasma Reforming of Hydrocarbon Fuels Into Hydrogen and Carbon Suboxide for Energy Generation Without CO_2 Emission. <i>IEEE Transactions on Plasma Science</i> , 2012 , 40, 1362-1370 | 1.3 | 6 |
| 79 | Challenges in Ceramic Science: A Report from the Workshop on Emerging Research Areas in Ceramic Science. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 3699-3712 | 3.8 | 51 |
| 78 | Two-dimensional transition metal carbides. <i>ACS Nano</i> , 2012 , 6, 1322-31 | 16.7 | 2382 |
| 77 | First principles study of two-dimensional early transition metal carbides. <i>MRS Communications</i> , 2012 , 2, 133-137 | 2.7 | 316 |
| 76 | Three-dimensional nanostructures from porous anodic alumina. <i>MRS Communications</i> , 2012 , 2, 51-54 | 2.7 | 1 |
| 75 | Nanoprobes for intracellular and single cell surface-enhanced Raman spectroscopy (SERS). <i>Journal of Raman Spectroscopy</i> , 2012 , 43, 817-827 | 2.3 | 60 |
| 74 | The Electrochemical Flow Capacitor: A New Concept for Rapid Energy Storage and Recovery. <i>Advanced Energy Materials</i> , 2012 , 2, 895-902 | 21.8 | 176 |
| 73 | Electrochemical Flow Cells: The Electrochemical Flow Capacitor: A New Concept for Rapid Energy Storage and Recovery (Adv. Energy Mater. 7/2012). <i>Advanced Energy Materials</i> , 2012 , 2, 911-911 | 21.8 | 4 |
| 72 | Carbide-derived carbon monoliths with hierarchical pore architectures. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 7577-80 | 16.4 | 120 |
| 71 | Cytokine Removal: Hierarchical Porous Carbide-Derived Carbons for the Removal of Cytokines from Blood Plasma (Adv. Healthcare Mater. 6/2012). <i>Advanced Healthcare Materials</i> , 2012 , 1, 682-682 | 10.1 | 3 |
| 70 | Understanding controls on interfacial wetting at epitaxial graphene: Experiment and theory. <i>Physical Review B</i> , 2012 , 85, | 3.3 | 85 |
| 69 | Structure of Nanocrystalline BN and BN/C Coatings on SiC. <i>Ceramic Transactions</i> , 2012 , 109-119 | 0.1 | |
| 68 | Carbon coated textiles for flexible energy storage. <i>Energy and Environmental Science</i> , 2011 , 4, 5060 | 35.4 | 438 |

| | | | |
|----|--|------|------|
| 67 | Capacitive Energy Storage from 50 to 100 °C Using an Ionic Liquid Electrolyte. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 2396-2401 | 6.4 | 308 |
| 66 | Effect of pore size on carbon dioxide sorption by carbide derived carbon. <i>Energy and Environmental Science</i> , 2011 , 4, 3059 | 35.4 | 459 |
| 65 | Preventing Sodium Poisoning of Photocatalytic TiO ₂ Films on Glass by Metal Doping. <i>International Journal of Applied Glass Science</i> , 2011 , 2, 108-116 | 1.8 | 21 |
| 64 | Effect of Calcination Temperature and Environment on Photocatalytic and Mechanical Properties of Ultrathin Sol-gel Titanium Dioxide Films. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 1101-1108 | 3.8 | 12 |
| 63 | On the Topotactic Transformation of Ti ₂ AlC into a Ti ₃ AlC ₂ Cubic Phase by Heating in Molten Lithium Fluoride in Air. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 4556-4561 | 3.8 | 59 |
| 62 | Carbide-Derived Carbons [From Porous Networks to Nanotubes and Graphene. <i>Advanced Functional Materials</i> , 2011 , 21, 810-833 | 15.6 | 524 |
| 61 | Brick-and-Mortar Self-Assembly Approach to Graphitic Mesoporous Carbon Nanocomposites. <i>Advanced Functional Materials</i> , 2011 , 21, 2208-2215 | 15.6 | 93 |
| 60 | Two-dimensional nanocrystals produced by exfoliation of Ti ₃ AlC ₂ . <i>Advanced Materials</i> , 2011 , 23, 4248-534 | 4.8 | 4846 |
| 59 | Flexible Nano-felts of Carbide-Derived Carbon with Ultra-high Power Handling Capability. <i>Advanced Energy Materials</i> , 2011 , 1, 423-430 | 21.8 | 159 |
| 58 | STORAGE MATERIALS: Flexible Nano-felts of Carbide-Derived Carbon with Ultra-high Power Handling Capability (Adv. Energy Mater. 3/2011). <i>Advanced Energy Materials</i> , 2011 , 1, 422-422 | 21.8 | 2 |
| 57 | Continuous carbide-derived carbon films with high volumetric capacitance. <i>Energy and Environmental Science</i> , 2011 , 4, 135-138 | 35.4 | 157 |
| 56 | Synthesis of quasi-oriented H ₂ MoO ₃ nanobelts and nanoplatelets on TiO ₂ coated glass. <i>Journal of Materials Chemistry</i> , 2011 , 21, 7931 | | 22 |
| 55 | Synthesis of a new nanocrystalline titanium aluminum fluoride phase by reaction of Ti ₂ AlC with hydrofluoric acid. <i>RSC Advances</i> , 2011 , 1, 1493 | 3.7 | 35 |
| 54 | Ultrahigh-power micrometre-sized supercapacitors based on onion-like carbon. <i>Nature Nanotechnology</i> , 2010 , 5, 651-4 | 28.7 | 2188 |
| 53 | Curvature effects in carbon nanomaterials: Exohedral versus endohedral supercapacitors. <i>Journal of Materials Research</i> , 2010 , 25, 1525-1531 | 2.5 | 121 |
| 52 | Materials science. High-temperature rubber made from carbon nanotubes. <i>Science</i> , 2010 , 330, 1332-3 | 33.3 | 54 |
| 51 | Materials for electrochemical capacitors 2010 , 138-147 | | 12 |
| 50 | Monolithic carbide-derived carbon films for micro-supercapacitors. <i>Science</i> , 2010 , 328, 480-3 | 33.3 | 1099 |

| | | | |
|----|--|------|-------|
| 49 | Titanium dioxide-coated nanofibers for advanced filters. <i>Journal of Nanoparticle Research</i> , 2010 , 12, 2511-2519 | 3.5 | 193 |
| 48 | Copper Azide Confined Inside Templated Carbon Nanotubes. <i>Advanced Functional Materials</i> , 2010 , 20, 3168-3174 | 15.6 | 58 |
| 47 | Effects of Deposition Conditions on the Structure and Chemical Properties of Carbon Nanopipettes. <i>Chemical Vapor Deposition</i> , 2009 , 15, 204-208 | | 19 |
| 46 | Molybdenum carbide-derived carbon for hydrogen storage. <i>Microporous and Mesoporous Materials</i> , 2009 , 120, 267-271 | 5.3 | 29 |
| 45 | Purification of carbon nanotubes by dynamic oxidation in air. <i>Journal of Materials Chemistry</i> , 2009 , 19, 7904 | | 46 |
| 44 | Contribution of Functional Groups to the Raman Spectrum of Nanodiamond Powders. <i>Chemistry of Materials</i> , 2009 , 21, 273-279 | 9.6 | 212 |
| 43 | Materials for electrochemical capacitors 2009 , 320-329 | | 136 |
| 42 | Materials for electrochemical capacitors. <i>Nature Materials</i> , 2008 , 7, 845-54 | 27 | 12536 |
| 41 | Magnetostatic interactions between carbon nanotubes filled with magnetic nanoparticles. <i>Applied Physics Letters</i> , 2008 , 92, 233117 | 3.4 | 40 |
| 40 | Review: static and dynamic behavior of liquids inside carbon nanotubes. <i>Microfluidics and Nanofluidics</i> , 2008 , 5, 289-305 | 2.8 | 211 |
| 39 | SERS intensity optimization by controlling the size and shape of faceted gold nanoparticles. <i>Journal of Raman Spectroscopy</i> , 2008 , 39, 61-67 | 2.3 | 65 |
| 38 | Bactericidal activity of chlorine-loaded carbide-derived carbon against Escherichia coli and Bacillus anthracis. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 84, 607-13 | 5.4 | 3 |
| 37 | Field controlled nematic-to-isotropic phase transition in liquid crystal-carbon nanotube composites. <i>Journal of Applied Physics</i> , 2008 , 103, 064314 | 2.5 | 25 |
| 36 | Monitoring oxidation of multiwalled carbon nanotubes by Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2007 , 38, 728-736 | 2.3 | 482 |
| 35 | Carbothermal Synthesis of SiC Micro-Ribbons. <i>Journal of the American Ceramic Society</i> , 2007 , 91, 83-87 | 3.8 | 14 |
| 34 | Self-assembled Multi-walled Carbon Nanotube Coatings. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1057, 1 | | |
| 33 | High Temperature Functionalization and Surface Modification of Nanodiamond Powders. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1039, 1 | | 9 |
| 32 | Imaging of liquid crystals confined in carbon nanopipes. <i>Applied Physics Letters</i> , 2006 , 89, 043123 | 3.4 | 5 |

| | | | |
|----|--|------|-----|
| 31 | Coelectrospinning of Carbon Nanotube Reinforced Nanocomposite Fibrils. <i>ACS Symposium Series</i> , 2006 , 231-245 | 0.4 | 4 |
| 30 | Formation of Porous SiC Ceramics by Pyrolysis of Wood Impregnated with Silica. <i>International Journal of Applied Ceramic Technology</i> , 2006 , 3, 485-490 | 2 | 33 |
| 29 | Synthesis of Carbide-Derived Carbon by Chlorination of Ti ₂ AlC. <i>Chemistry of Materials</i> , 2005 , 17, 2317-2328 | 3.8 | 79 |
| 28 | Tailoring of nanoscale porosity in carbide-derived carbons for hydrogen storage. <i>Journal of the American Chemical Society</i> , 2005 , 127, 16006-7 | 16.4 | 294 |
| 27 | Carbothermal Synthesis of Al-O-N Coatings Increasing Strength of SiC Fibers. <i>International Journal of Applied Ceramic Technology</i> , 2005 , 1, 68-75 | 2 | 5 |
| 26 | Guiding water into carbon nanopipes with the aid of bipolar electrochemistry. <i>Microfluidics and Nanofluidics</i> , 2005 , 1, 284-288 | 2.8 | 34 |
| 25 | Theoretical and experimental investigation of aqueous liquids contained in carbon nanotubes. <i>Journal of Applied Physics</i> , 2005 , 97, 124309 | 2.5 | 26 |
| 24 | Controlling dissociative adsorption for effective growth of carbon nanotubes. <i>Applied Physics Letters</i> , 2004 , 85, 3265-3267 | 3.4 | 31 |
| 23 | Examining pressure-induced phase transformations in silicon by spherical indentation and Raman spectroscopy: A statistical study. <i>Journal of Materials Research</i> , 2004 , 19, 3099-3108 | 2.5 | 81 |
| 22 | GaN nanoindentation: A micro-Raman spectroscopy study of local strain fields. <i>Journal of Applied Physics</i> , 2004 , 96, 2853-2856 | 2.5 | 58 |
| 21 | Effect of Carrier Gas on the Growth Rate, Growth Density, and Structure of Carbon Nanotubes. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 818, 84 | | 4 |
| 20 | DNET: The Drexel Nano Engineering Track. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 827, 182 | | |
| 19 | Testing Multiwall Carbon Nanotubes on Ion Erosion for Advanced Space Propulsion. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 821, 147 | | 5 |
| 18 | Synthesis of Boron Nitride Coating on Carbon Nanotubes. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 147-151 | 3.8 | 39 |
| 17 | Synthesis of graphite by chlorination of iron carbide at moderate temperatures. <i>Journal of Materials Chemistry</i> , 2004 , 14, 238 | | 88 |
| 16 | How safe are nanotubes and other nanofilaments?. <i>Materials Research Innovations</i> , 2003 , 7, 192-194 | 1.9 | 35 |
| 15 | Carbothermal Synthesis of Boron Nitride Coatings on Silicon Carbide. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 1830-1837 | 3.8 | 35 |
| 14 | Nanoporous carbide-derived carbon with tunable pore size. <i>Nature Materials</i> , 2003 , 2, 591-4 | 27 | 599 |

| | | | |
|----|--|------|----|
| 13 | Electrospinning of Carbon Nanotube Reinforced Nanocomposite Fibrils and Yarns. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 791, 1 | | 5 |
| 12 | Numerical Derivative Analysis of Load-Displacement Curves in DepthSensing Indentation. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 791, 268 | | 1 |
| 11 | High-Speed Ionic Synaptic Memory Based on 2D Titanium Carbide MXene. <i>Advanced Functional Materials</i> ,2109970 | 15.6 | 9 |
| 10 | Surface Redox Pseudocapacitance of Partially Oxidized Titanium Carbide MXene in Water-in-Salt Electrolyte. <i>ACS Energy Letters</i> ,30-35 | 20.1 | 7 |
| 9 | Towards Watt-scale hydroelectric energy harvesting by Ti3C2Tx-based transpiration-driven electrokinetic power generators. <i>Energy and Environmental Science</i> , | 35.4 | 14 |
| 8 | Highly Broadband Absorber Using Plasmonic Titanium Carbide (MXene) | | 1 |
| 7 | MXtrodes: MXene-infused bioelectronic interfaces for multiscale electrophysiology and stimulation | | 1 |
| 6 | An aqueous 2.1 V pseudocapacitor with MXene and V-MnO2 electrodes. <i>Nano Research</i> ,1 | 10 | 6 |
| 5 | Enhancing the Energy Storage Capabilities of Ti3C2Tx MXene Electrodes by Atomic Surface Reduction. <i>Advanced Functional Materials</i> ,2106294 | 15.6 | 4 |
| 4 | Evaluation of two-dimensional transition-metal carbides and carbonitrides (MXenes) for SERS substrates. <i>MRS Bulletin</i> ,1 | 3.2 | 4 |
| 3 | MXenes for Photonics. <i>ACS Photonics</i> , | 6.3 | 5 |
| 2 | MXene chemistry, electrochemistry and energy storage applications. <i>Nature Reviews Chemistry</i> , | 34.6 | 35 |
| 1 | Lithium-ions uptake by MAX/graphene hybrid1 | | |