

Zdenek Sofer

List of Publications by Year in Descending Order

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Version: 2024-04-19

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

505
papers

17,928
citations

67
h-index

111
g-index

551
ext. papers

21,190
ext. citations

7.9
avg, IF

7.61
L-index

#	Paper	IF	Citations
505	Synthesis and Applications of Graphene Oxide.. <i>Materials</i> , 2022 , 15,	3.5	10
504	Exfoliated Fe ₃ GeTe ₂ and Ni ₃ GeTe ₂ materials as water splitting electrocatalysts. <i>FlatChem</i> , 2022 , 32, 100334	5.1	0
503	Biohybrid Micro- and Nanorobots for Intelligent Drug Delivery. <i>Cyborg and Bionic Systems</i> , 2022 , 1-13	0	3
502	Fine-tuning the functionality of reduced graphene oxide via bipolar electrochemistry in freestanding 2D reaction layers. <i>Carbon</i> , 2022 , 191, 439-447	10.4	2
501	Enhanced voltammetric performance of sensors based on oxidized 2D layered black phosphorus. <i>Talanta</i> , 2022 , 238, 123036	6.2	1
500	Synthesis of Magnesium Phosphorous Trichalcogenides and Applications in Photoelectrochemical Water Splitting.. <i>Small</i> , 2022 , e2200355	11	1
499	Photomodification of benzyl germanane with group 6 metal carbonyls. <i>FlatChem</i> , 2022 , 33, 100354	5.1	1
498	Flexible, ultralight, and high-energy density electrochemical capacitors using sustainable materials. <i>Electrochimica Acta</i> , 2022 , 415, 140239	6.7	1
497	The multi-energetic Au ion implantation of graphene oxide and polymers. <i>EPJ Web of Conferences</i> , 2022 , 261, 02006	0.3	
496	Electroactive nanocarbon materials as signaling tags for electrochemical PCR.. <i>Talanta</i> , 2022 , 245, 123479	0.2	0
495	Synthesis, characterisation, and feasibility studies on the use of vanadium tellurate(vi) as a cathode material for aqueous rechargeable Zn-ion batteries.. <i>RSC Advances</i> , 2022 , 12, 12211-12218	3.7	0
494	Arsenene and Antimonene 2022 , 149-172		
493	All Solution-Processed van der Waals Heterostructures for Wafer-Scale Electronics.. <i>Advanced Materials</i> , 2021 , e2106110	24	10
492	Improved CO/CH Separation Properties of Cellulose Triacetate Mixed-Matrix Membranes with CeO@GO Hybrid Fillers. <i>Membranes</i> , 2021 , 11,	3.8	3
491	Mineralizer-free synthesis of orthorhombic arsenic-phosphorus alloys. <i>FlatChem</i> , 2021 , 30, 100297	5.1	0
490	Surface oxidation of Ti ₃ C ₂ T _x enhances the catalytic activity of supported platinum nanoparticles in ammonia borane hydrolysis. <i>2D Materials</i> , 2021 , 8, 015001	5.9	6
489	6FDA-DAM:DABA Co-Polyimide Mixed Matrix Membranes with GO and ZIF-8 Mixtures for Effective CO/CH Separation. <i>Nanomaterials</i> , 2021 , 11,	5.4	5

488	Molybdenum Oxide Supported on TiAlC is an Active Reverse Water-Gas Shift Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 4957-4966	8.3	6
487	Atomically Thin Nanosheets Confined in 2D Heterostructures: Metal-Ion Batteries Prospective. <i>Advanced Energy Materials</i> , 2021 , 11, 2100451	21.8	11
486	Prediction Clue on the Fading Capacity of Multi-Walled Carbon Nanotube-Decorated Li ₂ (Fe _{1-x} Ti _x)SiO ₄ /C High-Performance Cathode Materials. <i>Energy & Fuels</i> , 2021 , 35, 8321-8333	4.1	3
485	Photoelectrochemical Activity of Layered Metal Phosphorous Trichalcogenides for Water Oxidation. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100294	4.6	5
484	Functionalized Germanene-Based Nanomaterials for the Detection of Single Nucleotide Polymorphism. <i>ACS Applied Nano Materials</i> , 2021 , 4, 5164-5175	5.6	6
483	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
482	Cobalt Phosphorous Trisulfide as a High-Performance Electrocatalyst for the Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 23638-23646	9.5	11
481	Carbonaceous Oxygen Evolution Reaction Catalysts: From Defect and Doping-Induced Activity over Hybrid Compounds to Ordered Framework Structures. <i>Small</i> , 2021 , 17, e2007484	11	7
480	Interfacial Covalent Bonds Regulated Electron-Deficient 2D Black Phosphorus for Electrocatalytic Oxygen Reactions. <i>Advanced Materials</i> , 2021 , 33, e2008752	24	18
479	Phosphorene and other layered pnictogens as a new source of 2D materials for electrochemical sensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2021 , 139, 116249	14.6	8
478	Ambient-Stable Two-Dimensional CrI Organic-Inorganic Encapsulation. <i>ACS Nano</i> , 2021 , 15, 10659-10667	16.7	6
477	Self-Powered Broadband Photodetector and Sensor Based on Novel Few-Layered Pd(PS) Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 30806-30817	9.5	2
476	Ruthenium on Alkali-Exfoliated Ti ₃ (Al _{0.8} Sn _{0.2})C ₂ MAX Phase Catalyses Reduction of 4-Nitroaniline with Ammonia Borane. <i>ChemCatChem</i> , 2021 , 13, 3470-3478	5.2	2
475	Photocatalytic activity of twist-angle stacked 2D TaS ₂ . <i>Npj 2D Materials and Applications</i> , 2021 , 5,	8.8	2
474	Vanadium Dopants: A Boon or a Bane for Molybdenum Dichalcogenides-Based Electrocatalysis Applications. <i>Advanced Functional Materials</i> , 2021 , 31, 2009083	15.6	7
473	Modification of structure and surface morphology in various ZnO facets via low fluence gold swift heavy ion irradiation. <i>Surface and Interface Analysis</i> , 2021 , 53, 230-243	1.5	0
472	Surface Engineering Strategy Using Urea To Improve the Rate Performance of Na Ti O in Na-Ion Batteries. <i>Chemistry - A European Journal</i> , 2021 , 27, 3875-3886	4.8	6
471	Nanoconfined deep eutectic solvent in laminated MXene for efficient CO ₂ separation. <i>Chemical Engineering Journal</i> , 2021 , 405, 126961	14.7	24

470	Intrinsic carrier multiplication in layered Bi ₂ O ₂ Se avalanche photodiodes with gain bandwidth product exceeding 1 GHz. <i>Nano Research</i> , 2021 , 14, 1961-1966	10	7
469	Lithium-Assisted Exfoliation of Palladium Thiophosphate Nanosheets for Photoelectrocatalytic Water Splitting. <i>ACS Applied Nano Materials</i> , 2021 , 4, 441-448	5.6	3
468	MoS stacking matters: 3R polytype significantly outperforms 2H MoS for the hydrogen evolution reaction. <i>Nanoscale</i> , 2021 , 13, 19391-19398	7.7	4
467	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
466	Electrochemical Exfoliation of Janus-like BiTeI Nanosheets for Electrocatalytic Nitrogen Reduction. <i>ACS Applied Nano Materials</i> , 2021 , 4, 590-599	5.6	1
465	Effect of surface chemistry on bio-conjugation and bio-recognition abilities of 2D germanene materials. <i>Nanoscale</i> , 2021 , 13, 1893-1903	7.7	6
464	Rhenium Doping of Layered Transition-Metal Diselenides Triggers Enhancement of Photoelectrochemical Activity. <i>ACS Nano</i> , 2021 , 15, 2374-2385	16.7	4
463	Liquid Metals-Assisted Synthesis of Scalable 2D Nanomaterials: Prospective Sediment Inks for Screen-Printed Energy Storage Applications. <i>Advanced Functional Materials</i> , 2021 , 31, 2010320	15.6	11
462	High-yield exfoliation of 2D semiconductor monolayers and reassembly of organic/inorganic artificial superlattices. <i>CheM</i> , 2021 , 7, 1887-1902	16.2	8
461	Chiral Phonons and Giant Magneto-Optical Effect in CrBr 2D Magnet. <i>Advanced Materials</i> , 2021 , 33, e210118	16.18	5
460	Direct Observation of Magnon-Phonon Strong Coupling in Two-Dimensional Antiferromagnet at High Magnetic Fields. <i>Physical Review Letters</i> , 2021 , 127, 097401	7.4	10
459	CeO-Blended Cellulose Triacetate Mixed-Matrix Membranes for Selective CO Separation. <i>Membranes</i> , 2021 , 11,	3.8	4
458	The Role of Alkali Cation Intercalates on the Electrochemical Characteristics of Nb CT MXene for Energy Storage. <i>Chemistry - A European Journal</i> , 2021 , 27, 13235-13241	4.8	2
457	A short investigation on LiMn ₂ O ₄ wrapped with MWCNT as composite cathode for lithium-ion batteries. <i>Bulletin of Materials Science</i> , 2021 , 44, 1	1.7	
456	Integration of BiOI nanosheets into bubble-propelled micromotors for efficient water purification. <i>FlatChem</i> , 2021 , 100294	5.1	1
455	Nitrogen-doped graphene based triboelectric nanogenerators. <i>Nano Energy</i> , 2021 , 87, 106173	17.1	11
454	Edge-Hydrogenated Germanene by Electrochemical Decalcification-Exfoliation of CaGe: Germanene-Enabled Vapor Sensor. <i>ACS Nano</i> , 2021 , 15, 16709-16718	16.7	1
453	Comparison between layered Pt ₃ Te ₄ and PtTe ₂ for electrocatalytic reduction reactions. <i>FlatChem</i> , 2021 , 29, 100280	5.1	4

452	Modified Single-Walled Carbon Nanotube Membranes for the Elimination of Antibiotics from Water. <i>Membranes</i> , 2021 , 11,	3.8	1
451	Highly exfoliated NiPS ₃ nanosheets as efficient electrocatalyst for high yield ammonia production. <i>Chemical Engineering Journal</i> , 2021 , 430, 132649	14.7	5
450	Understanding electrochemical capacitors with in-situ techniques. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 149, 111418	16.2	14
449	Molecular-level fabrication of highly selective composite ZIF-8-CNT-PDMS membranes for effective CO ₂ /N ₂ , CO ₂ /H ₂ and olefin/paraffin separations. <i>Separation and Purification Technology</i> , 2021 , 274, 119003	8.3	6
448	Sub-millimetre scale Van der Waals single-crystal MoTe ₂ for potassium storage: Electrochemical properties, and its failure and structure evolution mechanisms. <i>Energy Storage Materials</i> , 2021 , 43, 284-292	19.4	2
447	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
446	Liquid-Phase Exfoliated Gallium Selenide for Light-Driven Thin-Film Transistors. <i>Advanced Electronic Materials</i> , 2021 , 7, 2001080	6.4	4
445	Functionalized germanane/SWCNT hybrid films as flexible anodes for lithium-ion batteries. <i>Nanoscale Advances</i> , 2021 , 3, 4440-4446	5.1	5
444	Surface modification by high-energy heavy-ion irradiation in various crystalline ZnO facets. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 22673-22684	3.6	2
443	The effectiveness of Soxhlet extraction as a simple method for GO rinsing as a precursor of high-quality graphene. <i>Nanoscale Advances</i> , 2021 , 3, 5292-5300	5.1	0
442	Topochemical Transformation of Two-Dimensional VSe into Metallic Nonlayered VO for Water Splitting Reactions in Acidic and Alkaline Media.. <i>ACS Nano</i> , 2021 ,	16.7	3
441	Polydimethylsiloxane/graphene oxide composite improving performance by ion beam irradiation. <i>Surface and Interface Analysis</i> , 2020 , 52, 1156-1162	1.5	3
440	Surface Energy of Black Phosphorus Alloys with Arsenic. <i>ChemNanoMat</i> , 2020 , 6, 821-826	3.5	4
439	Freestanding LiFe _{0.2} Mn _{0.8} PO ₄ /rGO nanocomposites as high energy density fast charging cathodes for lithium-ion batteries. <i>Materials Today Energy</i> , 2020 , 16, 100416	7	4
438	Chemistry of Germanene: Surface Modification of Germanane Using Alkyl Halides. <i>ACS Nano</i> , 2020 , 14, 7319-7327	16.7	12
437	2D Germanane Derivative as a Vector for Overcoming Doxorubicin Resistance in Cancer Cells. <i>Applied Materials Today</i> , 2020 , 20, 100697	6.6	6
436	Surface Functionalization of 2D Transition Metal Oxides and Dichalcogenides via Covalent and Non-covalent Bonding for Sustainable Energy and Biomedical Applications. <i>ACS Applied Nano Materials</i> , 2020 , 3, 3116-3143	5.6	29
435	Acetonitrile-assisted exfoliation of layered grey and black arsenic: contrasting properties. <i>Nanoscale Advances</i> , 2020 , 2, 1282-1289	5.1	5

434	Tunable Room-Temperature Synthesis of ReS ₂ Bicatalyst on 3D- and 2D-Printed Electrodes for Photo- and Electrochemical Energy Applications. <i>Advanced Functional Materials</i> , 2020 , 30, 1910193	15.6	25
433	Layered platinum dichalcogenides (PtS ₂ , PtSe ₂ , PtTe ₂) for non-enzymatic electrochemical sensor. <i>Applied Materials Today</i> , 2020 , 19, 100606	6.6	6
432	"Top-down" Arsenene Production by Low-Potential Electrochemical Exfoliation. <i>Inorganic Chemistry</i> , 2020 , 59, 11259-11265	5.1	15
431	Comparison of GO and polymer microcapacitors prepared by ion beam writing. <i>Surface and Interface Analysis</i> , 2020 , 52, 1171-1177	1.5	
430	Microcapacitors on graphene oxide and synthetic polymers prepared by microbeam lithography. <i>Applied Surface Science</i> , 2020 , 528, 146802	6.7	3
429	Smartdust 3D-Printed Graphene-Based Al/Ga Robots for Photocatalytic Degradation of Explosives. <i>Small</i> , 2020 , 16, e2002111	11	10
428	Graphene-Supported 2D transition metal dichalcogenide van der waals heterostructures. <i>Applied Materials Today</i> , 2020 , 19, 100600	6.6	40
427	Niobium-doped TiS: Formation of TiS nanobelts and their effects in enzymatic biosensors. <i>Biosensors and Bioelectronics</i> , 2020 , 155, 112114	11.8	13
426	Molecular-Scale Characterization of Photoinduced Charge Separation in Mixed-Dimensional InSe-Organic van der Waals Heterostructures. <i>ACS Nano</i> , 2020 , 14, 3509-3518	16.7	12
425	Will Any Crap We Put into Graphene Increase Its Electrocatalytic Effect?. <i>ACS Nano</i> , 2020 , 14, 21-25	16.7	88
424	MXene Titanium Carbide-based Biosensor: Strong Dependence of Exfoliation Method on Performance. <i>Analytical Chemistry</i> , 2020 , 92, 2452-2459	7.8	75
423	Large-Scale Production of Nanocrystalline Black Phosphorus Ceramics. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 7381-7391	9.5	13
422	Bipolar Electrochemistry Exfoliation of Layered Metal Chalcogenides Sb S and Bi S and their Hydrogen Evolution Applications. <i>Chemistry - A European Journal</i> , 2020 , 26, 6479-6483	4.8	10
421	Structural transition induced by niobium doping in layered titanium disulfide: The impact on electrocatalytic performance. <i>Applied Materials Today</i> , 2020 , 19, 100555	6.6	2
420	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
419	Free-Standing Black Phosphorus Foils for Energy Storage and Catalysis. <i>Chemistry - A European Journal</i> , 2020 , 26, 8162-8169	4.8	10
418	Emerging pnictogen-based 2D semiconductors: sensing and electronic devices. <i>Nanoscale</i> , 2020 , 12, 10430-10446	7.7	45
417	Autogenous Formation of Gold on Layered Black Phosphorus for Catalytic Purification of Waste Water. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 22702-22709	9.5	5

4 ¹⁶	Positive and Negative Effects of Dopants toward Electrocatalytic Activity of MoS and WS: Experiments and Theory. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 20383-20392	9.5	22
4 ¹⁵	Nano-LED induced chemical reactions for structuring processes. <i>Nanoscale Advances</i> , 2020 , 2, 5421-5427	5.1	6
4 ¹⁴	Spectroscopic thickness and quality metrics for PtSe ₂ layers produced by top-down and bottom-up techniques. <i>2D Materials</i> , 2020 , 7, 045027	5.9	9
4 ¹³	Graphitic nanofibers decorated with Ni ₃ S ₂ interlaced nanosheets as efficient binder-free cathodes for hybrid supercapacitors. <i>Applied Surface Science</i> , 2020 , 505, 143828	6.7	6
4 ¹²	Non-aqueous solution-processed phosphorene by controlled low-potential electrochemical exfoliation and thin film preparation. <i>Nanoscale</i> , 2020 , 12, 2638-2647	7.7	20
4 ¹¹	Black phosphorus-arsenic alloys for lithium ion batteries. <i>FlatChem</i> , 2020 , 19, 100143	5.1	10
4 ¹⁰	Black arsenic: a new synthetic method by catalytic crystallization of arsenic glass. <i>Nanoscale</i> , 2020 , 12, 5397-5401	7.7	7
4 ⁰⁹	Hexagonal and Cubic Boron Nitride in Bulk and Nanosized Forms and Their Capacitive Behavior. <i>ChemElectroChem</i> , 2020 , 7, 74-77	4.3	1
4 ⁰⁸	Elements beyond graphene: Current state and perspectives of elemental monolayer deposition by bottom-up approach. <i>Applied Materials Today</i> , 2020 , 18, 100502	6.6	16
4 ⁰⁷	Layered black phosphorus as a reducing agent - decoration with group 10 elements.. <i>RSC Advances</i> , 2020 , 10, 36452-36458	3.7	1
4 ⁰⁶	Enhanced voltammetric determination of metal ions by using a bismuthene-modified screen-printed electrode. <i>Electrochimica Acta</i> , 2020 , 362, 137144	6.7	7
4 ⁰⁵	Stabilization of Black Phosphorus by Sonication-Assisted Simultaneous Exfoliation and Functionalization. <i>Chemistry - A European Journal</i> , 2020 , 26, 17581-17587	4.8	1
4 ⁰⁴	Recent Developments on the Single Atom Supported at 2D Materials Beyond Graphene as Catalysts. <i>ACS Catalysis</i> , 2020 , 10, 9634-9648	13.1	49
4 ⁰³	TaS, TaSe, and Their Heterogeneous Films as Catalysts for the Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , 2020 , 10, 3313-3325	13.1	33
4 ⁰²	Boron and nitrogen dopants in graphene have opposite effects on the electrochemical detection of explosive nitroaromatic compounds. <i>Electrochemistry Communications</i> , 2020 , 112, 106660	5.1	9
4 ⁰¹	Potential Dependent Electrochemical Exfoliation of NiPS ₃ and Implications for Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2020 , 3, 11992-11999	6.1	6
4 ⁰⁰	Microwave-Induced Structural Engineering and Pt Trapping in 6R-TaS for the Hydrogen Evolution Reaction. <i>Small</i> , 2020 , 16, e2003372	11	8
399	A High-Performance Magnesium Triflate-based Electrolyte for Rechargeable Magnesium Batteries. <i>Cell Reports Physical Science</i> , 2020 , 1, 100265	6.1	24

398	MXene-Based Flexible Supercapacitors: Influence of an Organic Ionic Conductor Electrolyte on the Performance. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 53039-53048	9.5	21
397	Single-Step Synthesis of Platinoid-Decorated Phosphorene: Perspectives for Catalysis, Gas Sensing, and Energy Storage. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 50516-50526	9.5	12
396	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
395	Integrated Biomonitoring Sensing with Wearable Asymmetric Supercapacitors Based on Ti3C2 MXene and 1T-Phase WS2 Nanosheets. <i>Advanced Functional Materials</i> , 2020 , 30, 2003673	15.6	34
394	Structural Manipulation of Layered TiS2 to TiS3 Nanobelts through Niobium Doping for High-Performance Supercapacitors. <i>ChemElectroChem</i> , 2020 , 7, 4985-4989	4.3	0
393	Light-Driven ZnO Brush-Shaped Self-Propelled Micromachines for Nitroaromatic Explosives Decomposition. <i>Small</i> , 2020 , 16, e1902944	11	19
392	Functional 2D Germanene Fluorescent Coating of Microrobots for Micromachines Multiplexing. <i>Small</i> , 2020 , 16, e1902365	11	21
391	Fe(0)-embedded thermally reduced graphene oxide as efficient nanocatalyst for reduction of nitro compounds to amines. <i>Chemical Engineering Journal</i> , 2020 , 382, 122469	14.7	28
390	Electrodeposited NiSe on a forest of carbon nanotubes as a free-standing electrode for hybrid supercapacitors and overall water splitting. <i>Journal of Colloid and Interface Science</i> , 2020 , 574, 300-311	9.3	50
389	Towards Antimonene and 2D Antimony Telluride through Electrochemical Exfoliation. <i>Chemistry - A European Journal</i> , 2020 , 26, 6583-6590	4.8	18
388	Synthesis Protocols of the Most Common Layered Carbide and Nitride MAX Phases. <i>Small Methods</i> , 2020 , 4, 1900780	12.8	27
387	Antimony Chalcogenide van der Waals Nanostructures for Energy Conversion and Storage. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 15790-15798	8.3	15
386	Coordination chemistry of 2D and layered gray arsenic: photochemical functionalization with chromium hexacarbonyl. <i>NPG Asia Materials</i> , 2019 , 11,	10.3	5
385	2H and 2H/1T-Transition Metal Dichalcogenide Films Prepared via Powderless Gas Deposition for the Hydrogen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 16440-16449	8.3	6
384	MAX and MAB Phases: Two-Dimensional Layered Carbide and Boride Nanomaterials for Electrochemical Applications. <i>ACS Applied Nano Materials</i> , 2019 , 2, 6010-6021	5.6	25
383	MnPS3 shows anticancer behaviour towards lung cancer cells. <i>FlatChem</i> , 2019 , 18, 100134	5.1	4
382	Localized deoxygenation of graphene oxide foil by ion microbeam writing. <i>Vacuum</i> , 2019 , 163, 10-14	3.7	10
381	Mix-and-Read No-Wash Fluorescence DNA Sensing System Using Graphene Oxide: Analytical Performance of Fresh Versus Aged Dispersions. <i>ACS Omega</i> , 2019 , 4, 1611-1616	3.9	3

380	Layered and two dimensional metal oxides for electrochemical energy conversion. <i>Energy and Environmental Science</i> , 2019 , 12, 41-58	35.4	204
379	Proteinase-sculptured 3D-printed graphene/polylactic acid electrodes as potential biosensing platforms: towards enzymatic modeling of 3D-printed structures. <i>Nanoscale</i> , 2019 , 11, 12124-12131	7.7	49
378	Light-Driven Sandwich ZnO/TiO ₂ /Pt Janus Micromotors: Schottky Barrier Suppression by Addition of TiO ₂ Atomic Interface Layers into ZnO/Pt Micromachines Leading to Enhanced Fuel-Free Propulsion. <i>Small Methods</i> , 2019 , 3, 1900258	12.8	10
377	Flexible Pt/Graphene Foil Containing only 6.6 wt % of Pt has a Comparable Hydrogen Evolution Reaction Performance to Platinum Metal. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 11721-11727	8.3	6
376	Catalytic hydrogen evolution reaction on "metal-free" graphene: key role of metallic impurities. <i>Nanoscale</i> , 2019 , 11, 11083-11085	7.7	14
375	Edge vs. basal plane electrochemistry of layered pnictogens (As, Sb, Bi): Does edge always offer faster electron transfer?. <i>Applied Materials Today</i> , 2019 , 16, 179-184	6.6	5
374	Equipartition of Energy Defines the Size-Thickness Relationship in Liquid-Exfoliated Nanosheets. <i>ACS Nano</i> , 2019 , 13, 7050-7061	16.7	71
373	Selenium covalently modified graphene: towards gas sensing. <i>2D Materials</i> , 2019 , 6, 034006	5.9	0
372	Thiographene synthesized from fluorographene via xanthogenate with immobilized enzymes for environmental remediation. <i>Nanoscale</i> , 2019 , 11, 10695-10701	7.7	6
371	Electrochemistry of Layered Semiconducting AllBVI Chalcogenides: Indium Monochalcogenides (InS, InSe, InTe). <i>ChemCatChem</i> , 2019 , 11, 2634-2642	5.2	13
370	Layered Crystalline and Amorphous Platinum Disulfide (PtS): Contrasting Electrochemistry. <i>Chemistry - A European Journal</i> , 2019 , 25, 7330-7338	4.8	9
369	MoS ₂ versatile spray-coating of 3D electrodes for the hydrogen evolution reaction. <i>Nanoscale</i> , 2019 , 11, 9888-9895	7.7	17
368	Atomic Layer Deposition as a General Method Turns any 3D-Printed Electrode into a Desired Catalyst: Case Study in Photoelectrochemistry. <i>Advanced Energy Materials</i> , 2019 , 9, 1900994	21.8	21
367	Recyclable nanographene-based micromachines for the on-the-fly capture of nitroaromatic explosives. <i>Nanoscale</i> , 2019 , 11, 8825-8834	7.7	18
366	Chemistry of Layered Pnictogens: Phosphorus, Arsenic, Antimony, and Bismuth. <i>Angewandte Chemie</i> , 2019 , 131, 7631-7637	3.6	11
365	Effects of the ion bombardment on the structure and composition of GO and rGO foils. <i>Materials Chemistry and Physics</i> , 2019 , 232, 272-277	4.4	15
364	Chemistry of Layered Pnictogens: Phosphorus, Arsenic, Antimony, and Bismuth. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 7551-7557	16.4	38
363	Mildly oxidized SWCNT as new potential support membrane material for effective H ₂ /CO ₂ separation. <i>Applied Materials Today</i> , 2019 , 15, 335-342	6.6	7

362	Fluorine saturation on thermally reduced graphene. <i>Applied Materials Today</i> , 2019 , 15, 343-349	6.6	7
361	Localized modification of graphene oxide properties by laser irradiation in vacuum. <i>Vacuum</i> , 2019 , 165, 134-138	3.7	15
360	Recoverable Bismuth-Based Microrobots: Capture, Transport, and On-Demand Release of Heavy Metals and an Anticancer Drug in Confined Spaces. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 13359-13369	9.5	24
359	Catalytic and Light-Driven ZnO/Pt Janus Nano/Micromotors: Switching of Motion Mechanism via Interface Roughness and Defect Tailoring at the Nanoscale. <i>Advanced Functional Materials</i> , 2019 , 29, 1808678	15.6	52
358	The capacitance and electron transfer of 3D-printed graphene electrodes are dramatically influenced by the type of solvent used for pre-treatment. <i>Electrochemistry Communications</i> , 2019 , 102, 83-88	5.1	68
357	Shear-force exfoliation of indium and gallium chalcogenides for selective gas sensing applications. <i>Nanoscale</i> , 2019 , 11, 4310-4317	7.7	18
356	Chemical bonding and thermodynamic properties of gallium and indium monochalcogenides. <i>Journal of Chemical Thermodynamics</i> , 2019 , 128, 97-102	2.9	3
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49	Boron-Doped Graphene: Scalable and Tunable p-Type Carrier Concentration Doping. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 23251-23257	3.8	97
48	Highly hydrogenated graphene through microwave exfoliation of graphite oxide in hydrogen plasma: towards electrochemical applications. <i>Chemistry - A European Journal</i> , 2013 , 19, 15583-92	4.8	43
47	Boron and nitrogen doping of graphene via thermal exfoliation of graphite oxide in a BF ₃ or NH ₃ atmosphere: contrasting properties. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 13146	13	68
46	Unusual inherent electrochemistry of graphene oxides prepared using permanganate oxidants. <i>Chemistry - A European Journal</i> , 2013 , 19, 12673-83	4.8	80
45	Carcinogenic organic residual compounds readsorbed on thermally reduced graphene materials are released at low temperature. <i>Chemistry - A European Journal</i> , 2013 , 19, 14446-50	4.8	6
44	Rapid thermal synthesis of GaN nanocrystals and nanodisks. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	4
43	Preparation and luminescent properties of cubic potassium-erbium fluoride nanoparticles. <i>Journal of Fluorine Chemistry</i> , 2013 , 156, 363-366	2.1	5
42	Nano-crystals of various lanthanide fluorides prepared using the ionic liquid bmimPF ₆ . <i>Journal of Fluorine Chemistry</i> , 2013 , 149, 13-17	2.1	12
41	Biomarkers Detection on Hydrogenated Graphene Surfaces: Towards Applications of Graphane in Biosensing. <i>Electroanalysis</i> , 2013 , 25, 703-705	3	26
40	Large-scale quantification of CVD graphene surface coverage. <i>Nanoscale</i> , 2013 , 5, 2379-87	7.7	45
39	Purification of carbon nanotubes by high temperature chlorine gas treatment. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 5615-9	3.6	24

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37	Complex organic molecules are released during thermal reduction of graphite oxides. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 9257-64	3.6	28
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35	Halogenation of graphene with chlorine, bromine, or iodine by exfoliation in a halogen atmosphere. <i>Chemistry - A European Journal</i> , 2013 , 19, 2655-62	4.8	131
34	Graphene materials preparation methods have dramatic influence upon their capacitance. <i>Electrochemistry Communications</i> , 2012 , 14, 5-8	5.1	88
33	Metallic Impurities in Graphenes Prepared from Graphite Can Dramatically Influence Their Properties. <i>Angewandte Chemie</i> , 2012 , 124, 515-518	3.6	19
32	Metallic impurities in graphenes prepared from graphite can dramatically influence their properties. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 500-3	16.4	149
31	High-pressure hydrogenation of graphene: towards graphane. <i>Nanoscale</i> , 2012 , 4, 7006-11	7.7	71
30	Graphite oxides: effects of permanganate and chlorate oxidants on the oxygen composition. <i>Chemistry - A European Journal</i> , 2012 , 18, 13453-9	4.8	138
29	Graphane electrochemistry: Electron transfer at hydrogenated graphenes. <i>Electrochemistry Communications</i> , 2012 , 25, 58-61	5.1	17
28	Inherently electroactive graphene oxide nanoplatelets as labels for single nucleotide polymorphism detection. <i>ACS Nano</i> , 2012 , 6, 8546-51	16.7	105
27	Influence of parent graphite particle size on the electrochemistry of thermally reduced graphene oxide. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 12794-9	3.6	22
26	Residual strain in recessed AlGa _N /Ga _N heterostructure field-effect transistors evaluated by micro photoluminescence measurements. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012 , 9, 911-914		4
25	Graphenes prepared by Staudenmaier, Hofmann and Hummers methods with consequent thermal exfoliation exhibit very different electrochemical properties. <i>Nanoscale</i> , 2012 , 4, 3515-22	7.7	303
24	Chemically reduced graphene contains inherent metallic impurities present in parent natural and synthetic graphite. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 12899-904	11.5	173
23	Noble metal (Pd, Ru, Rh, Pt, Au, Ag) doped graphene hybrids for electrocatalysis. <i>Nanoscale</i> , 2012 , 4, 5002-8	7.7	190
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12	Investigation of AlN growth on sapphire substrates in a horizontal MOVPE reactor. <i>Journal of Physics and Chemistry of Solids</i> , 2007 , 68, 1131-1134	3.9	1
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9	Simultaneous microwave-assisted reduction and B/N co-doping of graphene oxide for selective recognition of VOCs. <i>Journal of Materials Chemistry C</i> ,	7.1	1
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