# **Zdenek Sofer**

#### List of Publications by Citations

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#	Paper	IF	Citations
505	Layered transition metal dichalcogenides for electrochemical energy generation and storage. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 8981-8987	13	477
504	2D Monoelemental Arsenene, Antimonene, and Bismuthene: Beyond Black Phosphorus. <i>Advanced Materials</i> , <b>2017</b> , 29, 1605299	24	467
503	2H -HT phase transition and hydrogen evolution activity of MoS2, MoSe2, WS2 and WSe2 strongly depends on the MX2 composition. <i>Chemical Communications</i> , <b>2015</b> , 51, 8450-3	5.8	450
502	Black Phosphorus Rediscovered: From Bulk Material to Monolayers. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 8052-8072	16.4	315
501	Graphenes prepared by Staudenmaier, Hofmann and Hummers methods with consequent thermal exfoliation exhibit very different electrochemical properties. <i>Nanoscale</i> , <b>2012</b> , 4, 3515-22	7.7	303
500	Sulfur-doped graphene via thermal exfoliation of graphite oxide in H2S, SO2, or CS2 gas. <i>ACS Nano</i> , <b>2013</b> , 7, 5262-72	16.7	284
499	Cytotoxicity of exfoliated transition-metal dichalcogenides (MoS2 , WS2 , and WSe2 ) is lower than that of graphene and its analogues. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 9627-32	4.8	282
498	Electrochemistry at chemically modified graphenes. Chemistry - A European Journal, 2011, 17, 10763-70	4.8	272
497	Electrochemistry of transition metal dichalcogenides: strong dependence on the metal-to-chalcogen composition and exfoliation method. <i>ACS Nano</i> , <b>2014</b> , 8, 12185-98	16.7	239
496	Carboxylic Carbon Quantum Dots as a Fluorescent Sensing Platform for DNA Detection. <i>ACS Applied Materials &amp; Dots Applied</i>	9.5	216
495	Lithium intercalation compound dramatically influences the electrochemical properties of exfoliated MoS2. <i>Small</i> , <b>2015</b> , 11, 605-12	11	212
494	Layered and two dimensional metal oxides for electrochemical energy conversion. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 41-58	35.4	204
493	Synthesis of strongly fluorescent graphene quantum dots by cage-opening buckminsterfullerene. <i>ACS Nano</i> , <b>2015</b> , 9, 2548-55	16.7	200
492	Noble metal (Pd, Ru, Rh, Pt, Au, Ag) doped graphene hybrids for electrocatalysis. <i>Nanoscale</i> , <b>2012</b> , 4, 5002-8	7.7	190
49 <sup>1</sup>	Layered Platinum Dichalcogenides (PtS2, PtSe2, and PtTe2) Electrocatalysis: Monotonic Dependence on the Chalcogen Size. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 4306-4318	15.6	175
490	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> , <b>2012</b> , 109, 12899-904	11.5	173
489	Pnictogen (As, Sb, Bi) Nanosheets for Electrochemical Applications Are Produced by Shear Exfoliation Using Kitchen Blenders. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 14417-14422	16.4	170

488	Graphene oxide immobilized enzymes show high thermal and solvent stability. <i>Nanoscale</i> , <b>2015</b> , 7, 585	<b>2-<del>8</del>.</b> 7	167
487	Layered Black Phosphorus as a Selective Vapor Sensor. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 14317-20	16.4	162
486	Electrochemical Exfoliation of Layered Black Phosphorus into Phosphorene. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 10443-10445	16.4	159
485	Electrocatalysis of layered Group 5 metallic transition metal dichalcogenides (MX2, M = V, Nb, and Ta; X = S, Se, and Te). <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 14241-14253	13	159
484	Catalytic and charge transfer properties of transition metal dichalcogenides arising from electrochemical pretreatment. <i>ACS Nano</i> , <b>2015</b> , 9, 5164-79	16.7	158
483	Metallic impurities in graphenes prepared from graphite can dramatically influence their properties. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 500-3	16.4	149
482	Negative Electrocatalytic Effects of p-Doping Niobium and Tantalum on MoS2 and WS2 for the Hydrogen Evolution Reaction and Oxygen Reduction Reaction. <i>ACS Catalysis</i> , <b>2016</b> , 6, 5724-5734	13.1	145
481	The Cytotoxicity of Layered Black Phosphorus. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 13991-5	4.8	143
480	3D-Printed Graphene/Polylactic Acid Electrodes Promise High Sensitivity in Electroanalysis. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 5753-5757	7.8	141
479	Graphite oxides: effects of permanganate and chlorate oxidants on the oxygen composition. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 13453-9	4.8	138
478	MoSlexhibits stronger toxicity with increased exfoliation. <i>Nanoscale</i> , <b>2014</b> , 6, 14412-8	7.7	132
477	Searching for magnetism in hydrogenated graphene: using highly hydrogenated graphene prepared via Birch reduction of graphite oxides. <i>ACS Nano</i> , <b>2013</b> , 7, 5930-9	16.7	131
476	Halogenation of graphene with chlorine, bromine, or iodine by exfoliation in a halogen atmosphere. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 2655-62	4.8	131
475	Tuning of fluorine content in graphene: towards large-scale production of stoichiometric fluorographene. <i>Nanoscale</i> , <b>2015</b> , 7, 13646-55	7.7	127
474	Layered Metal Thiophosphite Materials: Magnetic, Electrochemical, and Electronic Properties. <i>ACS Applied Materials &amp; District Materials</i> , 12563-12573	9.5	126
473	3D Printed Graphene Electrodes' Electrochemical Activation. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2018</b> , 10, 40294-40301	9.5	126
472	Doping with Graphitic Nitrogen Triggers Ferromagnetism in Graphene. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 3171-3180	16.4	124
471	The Covalent Functionalization of Layered Black Phosphorus by Nucleophilic Reagents.  Angewandte Chemie - International Edition, 2017, 56, 9891-9896	16.4	124

470	Black Phosphorus Nanoparticle Labels for Immunoassays via Hydrogen Evolution Reaction Mediation. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 10074-10079	7.8	118
469	3R phase of MoS and WS outperforms the corresponding 2H phase for hydrogen evolution. <i>Chemical Communications</i> , <b>2017</b> , 53, 3054-3057	5.8	115
468	Synthetic routes contaminate graphene materials with a whole spectrum of unanticipated metallic elements. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 13774-9	11.5	113
467	Layered Black Phosphorus: Strongly Anisotropic Magnetic, Electronic, and Electron-Transfer Properties. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 3382-6	16.4	111
466	Pristine Basal- and Edge-Plane-Oriented Molybdenite MoS2 Exhibiting Highly Anisotropic Properties. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 7170-8	4.8	106
465	Inherently electroactive graphene oxide nanoplatelets as labels for single nucleotide polymorphism detection. <i>ACS Nano</i> , <b>2012</b> , 6, 8546-51	16.7	105
464	Few-layer black phosphorus nanoparticles. <i>Chemical Communications</i> , <b>2016</b> , 52, 1563-6	5.8	103
463	Metallic 1T-WS2 for Selective Impedimetric Vapor Sensing. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 56	51 <b>1</b> -5 <b>6</b> 1	<b>6</b> 99
462	Transition metal dichalcogenides (MoS2, MoSe2, WS2 and WSe2) exfoliation technique has strong influence upon their capacitance. <i>Electrochemistry Communications</i> , <b>2015</b> , 56, 24-28	5.1	97
461	Boron-Doped Graphene: Scalable and Tunable p-Type Carrier Concentration Doping. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 23251-23257	3.8	97
460	1T-Phase Transition Metal Dichalcogenides (MoS, MoSe, WS, and WSe) with Fast Heterogeneous Electron Transfer: Application on Second-Generation Enzyme-Based Biosensor. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2017</b> , 9, 40697-40706	9.5	95
459	Towards graphene bromide: bromination of graphite oxide. <i>Nanoscale</i> , <b>2014</b> , 6, 6065-74	7.7	91
458	Will Any Crap We Put into Graphene Increase Its Electrocatalytic Effect?. ACS Nano, 2020, 14, 21-25	16.7	88
457	Graphene materials preparation methods have dramatic influence upon their capacitance. <i>Electrochemistry Communications</i> , <b>2012</b> , 14, 5-8	5.1	88
456	Two-Dimensional 1T-Phase Transition Metal Dichalcogenides as Nanocarriers To Enhance and Stabilize Enzyme Activity for Electrochemical Pesticide Detection. <i>ACS Nano</i> , <b>2017</b> , 11, 5774-5784	16.7	86
455	Voltammetry of Layered Black Phosphorus: Electrochemistry of Multilayer Phosphorene. <i>ChemElectroChem</i> , <b>2015</b> , 2, 324-327	4.3	83
454	Unusual inherent electrochemistry of graphene oxides prepared using permanganate oxidants. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 12673-83	4.8	80
453	Pnictogen (As, Sb, Bi) Nanosheets for Electrochemical Applications Are Produced by Shear Exfoliation Using Kitchen Blenders. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 14609-14614	3.6	78

## (2016-2019)

452	Ultrapure Graphene Is a Poor Electrocatalyst: Definitive Proof of the Key Role of Metallic Impurities in Graphene-Based Electrocatalysis. <i>ACS Nano</i> , <b>2019</b> , 13, 1574-1582	16.7	76	
45 <sup>1</sup>	MXene Titanium Carbide-based Biosensor: Strong Dependence of Exfoliation Method on Performance. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 2452-2459	7.8	75	
450	Exfoliation of Layered Topological Insulators BiSe and BiTe via Electrochemistry. <i>ACS Nano</i> , <b>2016</b> , 10, 11442-11448	16.7	74	
449	Transition metal (Mn, Fe, Co, Ni)-doped graphene hybrids for electrocatalysis. <i>Chemistry - an Asian Journal</i> , <b>2013</b> , 8, 1295-300	4.5	7 <sup>2</sup>	
448	Equipartition of Energy Defines the Size-Thickness Relationship in Liquid-Exfoliated Nanosheets. <i>ACS Nano</i> , <b>2019</b> , 13, 7050-7061	16.7	71	
447	Aromatic-Exfoliated Transition Metal Dichalcogenides: Implications for Inherent Electrochemistry and Hydrogen Evolution. <i>ACS Catalysis</i> , <b>2016</b> , 6, 4594-4607	13.1	71	
446	High-pressure hydrogenation of graphene: towards graphane. <i>Nanoscale</i> , <b>2012</b> , 4, 7006-11	7.7	71	
445	The chemistry of CVD graphene. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 6082-6101	7.1	70	
444	Chemistry of Graphene Derivatives: Synthesis, Applications, and Perspectives. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 5992-6006	4.8	70	
443	Synthesis procedure and type of graphite oxide strongly influence resulting graphene properties. <i>Applied Materials Today</i> , <b>2016</b> , 4, 45-53	6.6	70	
442	Lithium Exfoliated Vanadium Dichalcogenides (VS2, VSe2, VTe2) Exhibit Dramatically Different Properties from Their Bulk Counterparts. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1600433	4.6	70	
441	Pnictogen-Based Enzymatic Phenol Biosensors: Phosphorene, Arsenene, Antimonene, and Bismuthene. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 134-138	16.4	69	
440	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> , <b>2019</b> , 102, 83-88	5.1	68	
439	Boron and nitrogen doping of graphene via thermal exfoliation of graphite oxide in a BF3 or NH3 atmosphere: contrasting properties. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 13146	13	68	
438	Sulfur Doping Induces Strong Ferromagnetic Ordering in Graphene: Effect of Concentration and Substitution Mechanism. <i>Advanced Materials</i> , <b>2016</b> , 28, 5045-53	24	67	
437	Black Phosphorus Nanoflakes/Polyaniline Hybrid Material for High-Performance Pseudocapacitors. Journal of Physical Chemistry C, <b>2017</b> , 121, 20532-20538	3.8	66	
436	Black phosphorus nanoparticles as a novel fluorescent sensing platform for nucleic acid detection. <i>Materials Chemistry Frontiers</i> , <b>2017</b> , 1, 1130-1136	7.8	65	
435	Catalytic properties of group 4 transition metal dichalcogenides (MX2; M = Ti, Zr, Hf; X = S, Se, Te). Journal of Materials Chemistry A, <b>2016</b> , 4, 18322-18334	13	65	

434	Precise tuning of the charge transfer kinetics and catalytic properties of MoS2 materials via electrochemical methods. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 17426-32	4.8	65
433	Electrochemistry of layered GaSe and GeS: applications to ORR, OER and HER. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 1699-711	3.6	64
432	Uranium- and thorium-doped graphene for efficient oxygen and hydrogen peroxide reduction. <i>ACS Nano</i> , <b>2014</b> , 8, 7106-14	16.7	64
431	Functional Protection of Exfoliated Black Phosphorus by Noncovalent Modification with Anthraquinone. <i>ACS Nano</i> , <b>2018</b> , 12, 5666-5673	16.7	63
430	Tuning of graphene oxide composition by multiple oxidations for carbon dioxide storage and capture of toxic metals. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 2739-2748	13	62
429	Ultrafast Electrochemical Trigger Drug Delivery Mechanism for Nanographene Micromachines. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1806696	15.6	62
428	Metal-Free Visible-Light Photoactivated CN Bubble-Propelled Tubular Micromotors with Inherent Fluorescence and On/Off Capabilities. <i>ACS Nano</i> , <b>2018</b> , 12, 12482-12491	16.7	62
427	Layered SnS versus SnS2: Valence and Structural Implications on Electrochemistry and Clean Energy Electrocatalysis. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 24098-24111	3.8	61
426	Alternating Misfit Layered Transition/Alkaline Earth Metal Chalcogenide Ca3Co4O9 as a New Class of Chalcogenide Materials for Hydrogen Evolution. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 4130-4136	9.6	60
425	Solution-Based Processing of Optoelectronically Active Indium Selenide. <i>Advanced Materials</i> , <b>2018</b> , 30, e1802990	24	59
424	Towards stoichiometric analogues of graphene: graphane, fluorographene, graphol, graphene acid and others. <i>Chemical Society Reviews</i> , <b>2017</b> , 46, 4450-4463	58.5	58
423	Layered transition metal oxyhydroxides as tri-functional electrocatalysts. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 11920-11929	13	58
422	Water-soluble highly fluorinated graphite oxide. RSC Advances, 2014, 4, 1378-1387	3.7	58
421	Self-Propelled Supercapacitors for On-Demand Circuit Configuration Based on WS2 Nanoparticles Micromachines. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 6662-6667	15.6	57
420	Schwarzer Phosphor neu entdeckt: vom Volumenmaterial zu Monoschichten. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 8164-8185	3.6	56
419	Beyond Graphene: Chemistry of Group 14 Graphene Analogues: Silicene, Germanene, and Stanene. <i>ACS Nano</i> , <b>2019</b> , 13, 8566-8576	16.7	56
418	Nitrogen doped graphene: influence of precursors and conditions of the synthesis. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 2887-2893	7.1	54
417	Boron-doped graphene and boron-doped diamond electrodes: detection of biomarkers and resistance to fouling. <i>Analyst, The</i> , <b>2013</b> , 138, 4885-91	5	53

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416	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> , <b>2019</b> , 29, 1808678	15.6	52
415	Vacuum-assisted microwave reduction/exfoliation of graphite oxide and the influence of precursor graphite oxide. <i>Carbon</i> , <b>2014</b> , 77, 508-517	10.4	52
414	The Role of the Metal Element in Layered Metal Phosphorus Triselenides upon Their Electrochemical Sensing and Energy Applications. <i>ACS Catalysis</i> , <b>2017</b> , 7, 8159-8170	13.1	50
413	Radioactive Uranium Preconcentration Self-Propelled Autonomous Microrobots Based on Metal-Organic Frameworks. <i>ACS Nano</i> , <b>2019</b> , 13, 11477-11487	16.7	50
412	Unconventionally Layered CoTe and NiTe as Electrocatalysts for Hydrogen Evolution. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 11719-11726	4.8	50
411	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> , <b>2020</b> , 574, 300-311	9.3	50
410	ZnO/ZnO/Pt Janus Micromotors Propulsion Mode Changes with Size and Interface Structure: Enhanced Nitroaromatic Explosives Degradation under Visible Light. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 42688-42697	9.5	50
409	Proteinase-sculptured 3D-printed graphene/polylactic acid electrodes as potential biosensing platforms: towards enzymatic modeling of 3D-printed structures. <i>Nanoscale</i> , <b>2019</b> , 11, 12124-12131	7.7	49
408	Impact Electrochemistry of Layered Transition Metal Dichalcogenides. ACS Nano, 2015, 9, 8474-83	16.7	49
407	Exfoliated transition metal dichalcogenides (MoS2, MoSe2, WS2, WSe2): An electrochemical impedance spectroscopic investigation. <i>Electrochemistry Communications</i> , <b>2015</b> , 50, 39-42	5.1	49
406	Recent Developments on the Single Atom Supported at 2D Materials Beyond Graphene as Catalysts. <i>ACS Catalysis</i> , <b>2020</b> , 10, 9634-9648	13.1	49
405	Origin of exotic ferromagnetic behavior in exfoliated layered transition metal dichalcogenides MoS2 and WS2. <i>Nanoscale</i> , <b>2016</b> , 8, 1960-7	7.7	48
404	Cooperative Multifunctional Self-Propelled Paramagnetic Microrobots with Chemical Handles for Cell Manipulation and Drug Delivery. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1804343	15.6	48
403	Air-stable superparamagnetic metal nanoparticles entrapped in graphene oxide matrix. <i>Nature Communications</i> , <b>2016</b> , 7, 12879	17.4	47
402	Exfoliated Layered Manganese Trichalcogenide Phosphite (MnPX3, X = S, Se) as Electrocatalytic van der Waals Materials for Hydrogen Evolution. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1805975	15.6	47
401	Solution-Processed GaSe Nanoflake-Based Films for Photoelectrochemical Water Splitting and Photoelectrochemical-Type Photodetectors. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1909572	15.6	46
400	2H - 11 T Phase Change in Direct Synthesis of WS Nanosheets via Solution-Based Electrochemical Exfoliation and Their Catalytic Properties. ACS Applied Materials & amp; Interfaces, 2017, 9, 26350-26356	9.5	46
399	Metal Phosphorous Trichalcogenides (MPCh ): From Synthesis to Contemporary Energy Challenges.  Angewandte Chemie - International Edition, <b>2019</b> , 58, 9326-9337	16.4	46

398	Towards graphene iodide: iodination of graphite oxide. <i>Nanoscale</i> , <b>2015</b> , 7, 261-70	7.7	45
397	Products of Degradation of Black Phosphorus in Protic Solvents. <i>ACS Nano</i> , <b>2018</b> , 12, 8390-8396	16.7	45
396	Highly hydrogenated graphene via active hydrogen reduction of graphene oxide in the aqueous phase at room temperature. <i>Nanoscale</i> , <b>2014</b> , 6, 2153-60	7.7	45
395	Black Phosphorus Nanoparticles Potentiate the Anticancer Effect of Oxaliplatin in Ovarian Cancer Cell Line. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1701955	15.6	45
394	Large-scale quantification of CVD graphene surface coverage. <i>Nanoscale</i> , <b>2013</b> , 5, 2379-87	7.7	45
393	MoxW1⊠S2 Solid Solutions as 3D Electrodes for Hydrogen Evolution Reaction. <i>Advanced Materials Interfaces</i> , <b>2015</b> , 2, 1500041	4.6	44
392	Towards highly electrically conductive and thermally insulating graphene nanocomposites: Al2O3graphene. <i>RSC Advances</i> , <b>2014</b> , 4, 7418-7424	3.7	44
391	Capacitance of p- and n-doped graphenes is dominated by structural defects regardless of the dopant type. <i>ChemSusChem</i> , <b>2014</b> , 7, 1102-6	8.3	44
390	Graphene Oxide Sorption Capacity toward Elements over the Whole Periodic Table: A Comparative Study. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 24203-24212	3.8	44
389	Layered rhenium sulfide on free-standing three-dimensional electrodes is highly catalytic for the hydrogen evolution reaction: Experimental and theoretical study. <i>Electrochemistry Communications</i> , <b>2016</b> , 63, 39-43	5.1	43
388	Highly hydrogenated graphene through microwave exfoliation of graphite oxide in hydrogen plasma: towards electrochemical applications. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 15583-92	4.8	43
387	Atomically Thin 2D-Arsenene by Liquid-Phased Exfoliation: Toward Selective Vapor Sensing. <i>Advanced Functional Materials</i> , <b>2018</b> , 29, 1807004	15.6	42
386	Cation-Controlled Electrocatalytical Activity of Transition-Metal Disulfides. ACS Catalysis, 2018, 8, 2774-	-21738:1	41
385	Graphitic carbon nitride: Effects of various precursors on the structural, morphological and electrochemical sensing properties. <i>Applied Materials Today</i> , <b>2017</b> , 8, 150-162	6.6	41
384	Graphene-Supported 2D transition metal dichalcogenide van der waals heterostructures. <i>Applied Materials Today</i> , <b>2020</b> , 19, 100600	6.6	40
383	Insight into the mechanism of the thermal reduction of graphite oxide: deuterium-labeled graphite oxide is the key. <i>ACS Nano</i> , <b>2015</b> , 9, 5478-85	16.7	39
382	Oxygen-Free Highly Conductive Graphene Papers. Advanced Functional Materials, 2014, 24, 4878-4885	15.6	39
381	Electrochemical Exfoliation of Layered Black Phosphorus into Phosphorene. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 10579-10581	3.6	39

380	Ternary Transition Metal Oxide Nanoparticles with Spinel Structure for the Oxygen Reduction Reaction. <i>ChemElectroChem</i> , <b>2015</b> , 2, 982-987	4.3	39	
379	Toward graphene chloride: chlorination of graphene and graphene oxide. RSC Advances, 2016, 6, 66884	- <b>66</b> 892	2 39	
378	Functional Nanosheet Synthons by Covalent Modification of Transition-Metal Dichalcogenides. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 2066-2073	9.6	38	
377	Coke-derived graphene quantum dots as fluorescence nanoquencher in DNA detection. <i>Applied Materials Today</i> , <b>2017</b> , 7, 138-143	6.6	38	
376	Chemistry of Layered Pnictogens: Phosphorus, Arsenic, Antimony, and Bismuth. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 7551-7557	16.4	38	
375	Layered PtTe2 Matches Electrocatalytic Performance of Pt/C for Oxygen Reduction Reaction with Significantly Lower Toxicity. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 7432-7441	8.3	38	
374	Concurrent phosphorus doping and reduction of graphene oxide. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 4284-91	4.8	38	
373	Chemically-modified graphenes for oxidation of DNA bases: analytical parameters. <i>Analyst, The</i> , <b>2011</b> , 136, 4738-44	5	38	
372	Valence and oxide impurities in MoS and WS dramatically change their electrocatalytic activity towards proton reduction. <i>Nanoscale</i> , <b>2016</b> , 8, 16752-16760	7.7	37	
371	Layered Noble Metal Dichalcogenides: Tailoring Electrochemical and Catalytic Properties. <i>ACS Applied Materials &amp; Dichalcogenides</i> , <b>2017</b> , 9, 25587-25599	9.5	37	
370	Transition Metal Oxides for the Oxygen Reduction Reaction: Influence of the Oxidation States of the Metal and its Position on the Periodic Table. <i>ChemPhysChem</i> , <b>2015</b> , 16, 3527-31	3.2	37	
369	CoO and Co3O4 nanoparticles with a tunable particle size. <i>Ceramics International</i> , <b>2014</b> , 40, 12591-1259	55.1	37	
368	GrapheneAmorphous Transition-Metal Chalcogenide (MoSx, WSx) Composites as Highly Efficient Hybrid Electrocatalysts for the Hydrogen Evolution Reaction. <i>ChemElectroChem</i> , <b>2016</b> , 3, 565-571	4.3	36	
367	Layered Transition-Metal Ditellurides in Electrocatalytic Applications Contrasting Properties. <i>ACS Catalysis</i> , <b>2017</b> , 7, 5706-5716	13.1	36	
366	Enhancement of electrochemical and catalytic properties of MoS2 through ball-milling. <i>Electrochemistry Communications</i> , <b>2015</b> , 54, 36-40	5.1	36	
365	Direct electro-optical pumping for hybrid CdSe nanocrystal/III-nitride based nano-light-emitting diodes. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 061107	3.4	36	
364	Bipolar Electrochemical Synthesis of WS2 Nanoparticles and Their Application in Magneto-Immunosandwich Assay. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 4094-4098	15.6	35	
363	Synthesis of Carboxylated-Graphenes by the Kolbe-Schmitt Process. <i>ACS Nano</i> , <b>2017</b> , 11, 1789-1797	16.7	34	

362	Graphene oxide layers modified by light energetic ions. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 10282-10291	3.6	34
361	1T-Phase WS2 Protein-Based Biosensor. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1604923	15.6	34
360	Fluorographane (C1H(x)F(1-x-1)n: synthesis and properties. <i>Chemical Communications</i> , <b>2015</b> , 51, 5633-6	5.8	34
359	Synthesis of MnO, Mn2O3 and Mn3O4 nanocrystal clusters by thermal decomposition of manganese glycerolate. <i>Ceramics International</i> , <b>2015</b> , 41, 595-601	5.1	34
358	A New Member of the Graphene Family: Graphene Acid. Chemistry - A European Journal, 2016, 22, 17410	5 <sub>4</sub> 1.842	434
357	Cytotoxicity of Exfoliated Layered Vanadium Dichalcogenides. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 684-690	4.8	34
356	Integrated Biomonitoring Sensing with Wearable Asymmetric Supercapacitors Based on Ti3C2 MXene and 1T-Phase WS2 Nanosheets. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2003673	15.6	34
355	Chemical preparation of graphene materials results in extensive unintentional doping with heteroatoms and metals. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 15760-7	4.8	33
354	TaS, TaSe, and Their Heterogeneous Films as Catalysts for the Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , <b>2020</b> , 10, 3313-3325	13.1	33
353	Highly selective removal of Ga3+ ions from Al3+/Ga3+ mixtures using graphite oxide. <i>Carbon</i> , <b>2015</b> , 89, 121-129	10.4	32
352	Cytotoxicity of halogenated graphenes. <i>Nanoscale</i> , <b>2014</b> , 6, 1173-80	7.7	32
351	Carbon fragments are ripped off from graphite oxide sheets during their thermal reduction. <i>New Journal of Chemistry</i> , <b>2014</b> , 38, 5700-5705	3.6	32
350	Neutron diffraction as a precise and reliable method for obtaining structural properties of bulk quantities of graphene. <i>Nanoscale</i> , <b>2014</b> , 6, 13082-9	7.7	32
349	Layered Black Phosphorus as a Selective Vapor Sensor. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 14525-14528	3.6	32
348	Preparation of amorphous antimicrobial selenium nanoparticles stabilized by odor suppressing surfactant polysorbate 20. <i>Materials Letters</i> , <b>2015</b> , 152, 207-209	3.3	31
347	Nonconductive layered hexagonal boron nitride exfoliation by bipolar electrochemistry. <i>Nanoscale</i> , <b>2018</b> , 10, 7298-7303	7.7	31
346	Ball-milled sulfur-doped graphene materials contain metallic impurities originating from ball-milling apparatus: their influence on the catalytic properties. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 17875-80	3.6	31
345	Cytotoxicity profile of highly hydrogenated graphene. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 6366-73	34.8	31

### (2018-2015)

344	A limited anodic and cathodic potential window of MoS2: limitations in electrochemical applications. <i>Nanoscale</i> , <b>2015</b> , 7, 3126-9	7.7	30	
343	3D-graphene for electrocatalysis of oxygen reduction reaction: Increasing number of layers increases the catalytic effect. <i>Electrochemistry Communications</i> , <b>2014</b> , 46, 148-151	5.1	30	
342	Niobium disulphide (NbS2)-based (heterogeneous) electrocatalysts for an efficient hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 25593-25608	13	30	
341	Toxicity of layered semiconductor chalcogenides: beware of interferences. <i>RSC Advances</i> , <b>2015</b> , 5, 6748	5 <del>3.6</del> 749	<b>92</b> 9	
340	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> , <b>2020</b> , 3, 3116-3143	5.6	29	
339	Electrochemistry of layered metal diborides. <i>Nanoscale</i> , <b>2018</b> , 10, 11544-11552	7.7	29	
338	Interaction of single- and double-stranded DNA with multilayer MXene by fluorescence spectroscopy and molecular dynamics simulations. <i>Chemical Science</i> , <b>2019</b> , 10, 10010-10017	9.4	29	
337	MoSe Nanolabels for Electrochemical Immunoassays. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 12204-12209	7.8	28	
336	Towards Graphane Applications in Security: The Electrochemical Detection of Trinitrotoluene in Seawater on Hydrogenated Graphene. <i>Electroanalysis</i> , <b>2014</b> , 26, 62-68	3	28	
335	Fluorographene Modified by Grignard Reagents: A Broad Range of Functional Nanomaterials. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 1956-1964	4.8	28	
334	Complex organic molecules are released during thermal reduction of graphite oxides. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 9257-64	3.6	28	
333	Fe(0)-embedded thermally reduced graphene oxide as efficient nanocatalyst for reduction of nitro compounds to amines. <i>Chemical Engineering Journal</i> , <b>2020</b> , 382, 122469	14.7	28	
332	Group 6 Layered Transition-Metal Dichalcogenides in Lab-on-a-Chip Devices: 1T-Phase WS for Microfluidics Non-Enzymatic Detection of Hydrogen Peroxide. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 4978-4985	5 <sup>7.8</sup>	27	
331	Fluorographenes via thermal exfoliation of graphite oxide in SF6, SF4 and MoF6 atmospheres. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 5198-5207	7.1	27	
330	Synthesis Protocols of the Most Common Layered Carbide and Nitride MAX Phases. <i>Small Methods</i> , <b>2020</b> , 4, 1900780	12.8	27	
329	Impact electrochemistry of individual molybdenum nanoparticles. <i>Electrochemistry Communications</i> , <b>2015</b> , 56, 16-19	5.1	26	
328	Morphological Effects and Stabilization of the Metallic 1T Phase in Layered V-, Nb-, and Ta-Doped WSe for Electrocatalysis. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 3199-3208	4.8	26	
327	Making Ultrafast High-Capacity Anodes for Lithium-Ion Batteries via Antimony Doping of Nanosized Tin Oxide/Graphene Composites. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1706529	15.6	26	

326	Microwave Exfoliation of Graphite Oxides in HS Plasma for the Synthesis of Sulfur-Doped Graphenes as Oxygen Reduction Catalysts. <i>ACS Applied Materials &amp; District Research</i> , 8, 31849-3185.	<b>5</b> 9.5	26
325	Biomarkers Detection on Hydrogenated Graphene Surfaces: Towards Applications of Graphane in Biosensing. <i>Electroanalysis</i> , <b>2013</b> , 25, 703-705	3	26
324	MAX and MAB Phases: Two-Dimensional Layered Carbide and Boride Nanomaterials for Electrochemical Applications. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 6010-6021	5.6	25
323	Layered titanium diboride: towards exfoliation and electrochemical applications. <i>Nanoscale</i> , <b>2015</b> , 7, 12527-34	7.7	25
322	Tunable Room-Temperature Synthesis of ReS2 Bicatalyst on 3D- and 2D-Printed Electrodes for Photo- and Electrochemical Energy Applications. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1910193	15.6	25
321	Cytotoxicity of Group 5 Transition Metal Ditellurides (MTe ; M=V, Nb, Ta). <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 206-211	4.8	25
320	Iridium-catalyst-based autonomous bubble-propelled graphene micromotors with ultralow catalyst loading. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 14946-50	4.8	25
319	The Covalent Functionalization of Layered Black Phosphorus by Nucleophilic Reagents. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 10023-10028	3.6	25
318	2H-MT Phase Engineering of Layered Tantalum Disulfides in Electrocatalysis: Oxygen Reduction Reaction. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 8082-8091	4.8	24
317	Nitrogen-doped graphene: effect of graphite oxide precursors and nitrogen content on the electrochemical sensing properties. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 15914-15923	3.6	24
316	Recoverable Bismuth-Based Microrobots: Capture, Transport, and On-Demand Release of Heavy Metals and an Anticancer Drug in Confined Spaces. <i>ACS Applied Materials &amp; Discrete Mat</i>	9.5	24
315	Iridium- and Osmium-decorated Reduced Graphenes as Promising Catalysts for Hydrogen Evolution. <i>ChemPhysChem</i> , <b>2015</b> , 16, 1898-905	3.2	24
314	Lipase enzymes on graphene oxide support for high-efficiency biocatalysis. <i>Applied Materials Today</i> , <b>2016</b> , 5, 200-208	6.6	24
313	Purification of carbon nanotubes by high temperature chlorine gas treatment. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 5615-9	3.6	24
312	A High-Performance Magnesium Triflate-based Electrolyte for Rechargeable Magnesium Batteries. <i>Cell Reports Physical Science</i> , <b>2020</b> , 1, 100265	6.1	24
311	Layered Black Phosphorus: Strongly Anisotropic Magnetic, Electronic, and Electron-Transfer Properties. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 3443-3447	3.6	24
310	Nanoconfined deep eutectic solvent in laminated MXene for efficient CO2 separation. <i>Chemical Engineering Journal</i> , <b>2021</b> , 405, 126961	14.7	24
309	Triazine- and Heptazine-Based Carbon Nitrides: Toxicity. ACS Applied Nano Materials, 2018, 1, 4442-4449	95.6	24

# (2020-2018)

308	Investigation of electrocatalytic activity on a N-doped reduced graphene oxide surface for the oxygen reduction reaction in an alkaline medium. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 12129-12139	6.7	24
307	Efficient heat dissipation in AlGaN/GaN heterostructure grown on silver substrate. <i>Applied Materials Today</i> , <b>2017</b> , 7, 134-137	6.6	23
306	Metallic impurities in black phosphorus nanoflakes prepared by different synthetic routes. <i>Nanoscale</i> , <b>2018</b> , 10, 1540-1546	7.7	23
305	Fluorination of Black Phosphorus Will Black Phosphorus Burn Down in the Elemental Fluorine?. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1801438	15.6	23
304	Graphene sheet orientation of parent material exhibits dramatic influence on graphene properties. <i>Chemistry - an Asian Journal</i> , <b>2012</b> , 7, 2367-72	4.5	23
303	Cytotoxicity of Shear Exfoliated Pnictogen (As, Sb, Bi) Nanosheets. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 2242-2249	4.8	23
302	Phase diagram of the Srto system. Journal of the European Ceramic Society, 2015, 35, 935-940	6	22
301	Positive and Negative Effects of Dopants toward Electrocatalytic Activity of MoS and WS: Experiments and Theory. <i>ACS Applied Materials &amp; Experiments and Theory.</i> 12, 20383-20392	9.5	22
300	Synthesis of Graphene Oxide by Oxidation of Graphite with Ferrate(VI) Compounds: Myth or Reality?. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 11965-9	16.4	22
299	Nanosized graphane (C1H1.14)n by hydrogenation of carbon nanofibers by Birch reduction method. <i>RSC Advances</i> , <b>2016</b> , 6, 6475-6485	3.7	22
298	Transition metal-depleted graphenes for electrochemical applications via reduction of COIby lithium. <i>Small</i> , <b>2014</b> , 10, 1529-35	11	22
297	Microwave irradiated N- and B,Cl-doped graphene: Oxidation method has strong influence on capacitive behavior. <i>Applied Materials Today</i> , <b>2017</b> , 9, 204-211	6.6	22
296	Influence of parent graphite particle size on the electrochemistry of thermally reduced graphene oxide. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 12794-9	3.6	22
295	Doped Graphene for DNA Analysis: the Electrochemical Signal is Strongly Influenced by the Kind of Dopant and the Nucleobase Structure. <i>Scientific Reports</i> , <b>2016</b> , 6, 33046	4.9	22
294	Atomic Layer Deposition as a General Method Turns any 3D-Printed Electrode into a Desired Catalyst: Case Study in Photoelectrochemisty. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900994	21.8	21
293	Mesomeric Effects of Graphene Modified with Diazonium Salts: Substituent Type and Position Influence its Properties. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 17728-38	4.8	21
292	Hydrogenated Graphenes by Birch Reduction: Influence of Electron and Proton Sources on Hydrogenation Efficiency, Magnetism, and Electrochemistry. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 16828-38	4.8	21
291	MXene-Based Flexible Supercapacitors: Influence of an Organic Ionic Conductor Electrolyte on the Performance. ACS Applied Materials & amp; Interfaces, 2020, 12, 53039-53048	9.5	21

290	Liquid-Phase Exfoliated GeSe Nanoflakes for Photoelectrochemical-Type Photodetectors and Photoelectrochemical Water Splitting. <i>ACS Applied Materials &amp; Acs Applied Materials</i> (2020), 12, 48598-48613	9.5	21
289	Functional 2D Germanene Fluorescent Coating of Microrobots for Micromachines Multiplexing. <i>Small</i> , <b>2020</b> , 16, e1902365	11	21
288	One-Step Synthesis of B/N Co-doped Graphene as Highly Efficient Electrocatalyst for the Oxygen Reduction Reaction: Synergistic Effect of Impurities. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 928-936	4.8	21
287	Separation of thorium ions from wolframite and scandium concentrates using graphene oxide. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 25272-7	3.6	20
286	Simple Synthesis of Fluorinated Graphene: Thermal Exfoliation of Fluorographite. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 17696-17703	4.8	20
285	Black-phosphorus-enhanced bubble-propelled autonomous catalytic microjets. <i>Applied Materials Today</i> , <b>2017</b> , 9, 289-291	6.6	20
284	Non-aqueous solution-processed phosphorene by controlled low-potential electrochemical exfoliation and thin film preparation. <i>Nanoscale</i> , <b>2020</b> , 12, 2638-2647	7.7	20
283	TaS Nanofibers: Layered Trichalcogenide for High-Performance Electronic and Sensing Devices. <i>ACS Nano</i> , <b>2018</b> , 12, 464-473	16.7	20
282	1T-Phase Tungsten Chalcogenides (WS2, WSe2, WTe2) Decorated with TiO2 Nanoplatelets with Enhanced Electron Transfer Activity for Biosensing Applications. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 7006-7015	5.6	20
281	Black Phosphorus Synthesis Path Strongly Influences Its Delamination, Chemical Properties and Electrochemical Performance. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 503-509	6.1	19
280	Fine tuning of graphene properties by modification with aryl halogens. <i>Nanoscale</i> , <b>2016</b> , 8, 1493-502	7.7	19
279	Exfoliated transition metal dichalcogenide (MX2; M = Mo, W; X = S, Se, Te) nanosheets and their composites with polyaniline nanofibers for electrochemical capacitors. <i>Applied Materials Today</i> , <b>2019</b> , 16, 280-289	6.6	19
278	Metallic Impurities in Graphenes Prepared from Graphite Can Dramatically Influence Their Properties. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 515-518	3.6	19
277	Functionalization of Hydrogenated Graphene: Transition-Metal-Catalyzed Cross-Coupling Reactions of Allylic C-H Bonds. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 10751-4	16.4	19
276	Light-Driven ZnO Brush-Shaped Self-Propelled Micromachines for Nitroaromatic Explosives Decomposition. <i>Small</i> , <b>2020</b> , 16, e1902944	11	19
275	Thin, High-Flux, Self-Standing, Graphene Oxide Membranes for Efficient Hydrogen Separation from Gas Mixtures. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 11416-11422	4.8	18
274	Recyclable nanographene-based micromachines for the on-the-fly capture of nitroaromatic explosives. <i>Nanoscale</i> , <b>2019</b> , 11, 8825-8834	7.7	18
273	Shear-force exfoliation of indium and gallium chalcogenides for selective gas sensing applications. <i>Nanoscale</i> , <b>2019</b> , 11, 4310-4317	7.7	18

### (2015-2015)

272	The dopant type and amount governs the electrochemical performance of graphene platforms for the antioxidant activity quantification. <i>Nanoscale</i> , <b>2015</b> , 7, 9040-5	7.7	18	
271	Phosphorus and Halogen Co-Doped Graphene Materials and their Electrochemistry. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 15444-15450	4.8	18	
270	Definitive Insight into the Graphite Oxide Reduction Mechanism by Deuterium Labeling. <i>ChemPlusChem</i> , <b>2015</b> , 80, 1399-1407	2.8	18	
269	Interfacial Covalent Bonds Regulated Electron-Deficient 2D Black Phosphorus for Electrocatalytic Oxygen Reactions. <i>Advanced Materials</i> , <b>2021</b> , 33, e2008752	24	18	
268	Towards Antimonene and 2D Antimony Telluride through Electrochemical Exfoliation. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 6583-6590	4.8	18	
267	The Origin of MoS Significantly Influences Its Performance for the Hydrogen Evolution Reaction due to Differences in Phase Purity. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 3169-3177	4.8	17	
266	MoS versatile spray-coating of 3D electrodes for the hydrogen evolution reaction. <i>Nanoscale</i> , <b>2019</b> , 11, 9888-9895	7.7	17	
265	High temperature superconducting materials as bi-functional catalysts for hydrogen evolution and oxygen reduction. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 8346-8352	13	17	
264	Simple synthesis of Cr2O3 nanoparticles with a tunable particle size. <i>Ceramics International</i> , <b>2015</b> , 41, 4644-4650	5.1	17	
263	Layered Post-Transition-Metal Dichalcogenides (X-M-M-X) and Their Properties. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 18810-18816	4.8	17	
262	Highly selective uptake of Ba2+ and Sr2+ ions by graphene oxide from mixtures of IIA elements. <i>RSC Advances</i> , <b>2014</b> , 4, 26673-26676	3.7	17	
261	Graphane electrochemistry: Electron transfer at hydrogenated graphenes. <i>Electrochemistry Communications</i> , <b>2012</b> , 25, 58-61	5.1	17	
260	Cytotoxicity of phosphorus allotropes (black, violet, red). Applied Materials Today, 2018, 13, 310-319	6.6	17	
259	A highly sensitive room temperature humidity sensor based on 2D-WS2 nanosheets. <i>FlatChem</i> , <b>2018</b> , 9, 21-26	5.1	17	
258	Universal Method for Large-Scale Synthesis of Layered Transition Metal Dichalcogenides. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 10177-10186	4.8	16	
257	Selective Bromination of Graphene Oxide by the Hunsdiecker Reaction. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 10473-10479	4.8	16	
256	2D Stacks of MXene Ti3C2 and 1T-Phase WS2 with Enhanced Capacitive Behavior. <i>ChemElectroChem</i> , <b>2019</b> , 6, 3982-3986	4.3	16	
255	Selective nitrogen functionalization of graphene by Bucherer-type reaction. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 8090-5	4.8	16	

254	Cytotoxicity of fluorographene. RSC Advances, 2015, 5, 107158-107165	3.7	16
253	Elements beyond graphene: Current state and perspectives of elemental monolayer deposition by bottom-up approach. <i>Applied Materials Today</i> , <b>2020</b> , 18, 100502	6.6	16
252	Impact Electrochemistry: Detection of Graphene Nanosheets Labeled with Metal Nanoparticles through Oxygen Reduction Mediation. <i>ChemPhysChem</i> , <b>2016</b> , 17, 2096-9	3.2	16
251	WSe nanoparticles with enhanced hydrogen evolution reaction prepared by bipolar electrochemistry: application in competitive magneto-immunoassay. <i>Nanoscale</i> , <b>2018</b> , 10, 23149-23156	7.7	16
250	MoSe Dispersed in Stabilizing Surfactant Media: Effect of the Surfactant Type and Concentration on Electron Transfer and Catalytic Properties. <i>ACS Applied Materials &amp; Dispersed Materials &amp; Disperse</i>	7826	16
249	Near-Stoichiometric Bulk Graphane from Halogenated Graphenes (X = Cl/Br/l) by the Birch Reduction for High Density Energy Storage. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1605797	15.6	15
248	Fast Synthesis of Highly Oxidized Graphene Oxide. <i>ChemistrySelect</i> , <b>2017</b> , 2, 9000-9006	1.8	15
247	Antimony Chalcogenide van der Waals Nanostructures for Energy Conversion and Storage. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 15790-15798	8.3	15
246	Effects of the ion bombardment on the structure and composition of GO and rGO foils. <i>Materials Chemistry and Physics</i> , <b>2019</b> , 232, 272-277	4.4	15
245	Localized modification of graphene oxide properties by laser irradiation in vacuum. <i>Vacuum</i> , <b>2019</b> , 165, 134-138	3.7	15
244	"Top-down" Arsenene Production by Low-Potential Electrochemical Exfoliation. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 11259-11265	5.1	15
243	In vitro cytotoxicity of covalently protected layered molybdenum disulfide. <i>Applied Materials Today</i> , <b>2018</b> , 11, 200-206	6.6	15
242	Graphene oxide layers modified by irradiation with 1.2 MeV He+ ions. <i>Surface and Coatings Technology</i> , <b>2018</b> , 342, 220-225	4.4	15
241	Anti-MoS2 Nanostructures: Tl2S and Its Electrochemical and Electronic Properties. <i>ACS Nano</i> , <b>2016</b> , 10, 112-23	16.7	15
240	Synthesis, magnetic and transport properties of oxygen-free CrN ceramics. <i>Journal of the European Ceramic Society</i> , <b>2014</b> , 34, 4131-4136	6	15
239	Heat capacity, enthalpy and entropy of Sr14Co11O33 and Sr6Co5O15. <i>Thermochimica Acta</i> , <b>2014</b> , 575, 167-172	2.9	15
238	Surface properties of MoS probed by inverse gas chromatography and their impact on electrocatalytic properties. <i>Nanoscale</i> , <b>2017</b> , 9, 19236-19244	7.7	15
237	Growth and properties of GaN and AlN layers on silver substrates. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 212	1929	15

236	Hot Carrier and Surface Recombination Dynamics in Layered InSe Crystals. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 493-499	6.4	15	
235	Concentration of Nitric Acid Strongly Influences Chemical Composition of Graphite Oxide. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 6432-6440	4.8	14	
234	Ultrapure Molybdenum Disulfide Shows Enhanced Catalysis for Hydrogen Evolution over Impurities-Doped Counterpart. <i>ChemCatChem</i> , <b>2017</b> , 9, 1168-1171	5.2	14	
233	Catalytic hydrogen evolution reaction on "metal-free" graphene: key role of metallic impurities. <i>Nanoscale</i> , <b>2019</b> , 11, 11083-11085	7.7	14	
232	Layered franckeite and teallite intrinsic heterostructures: shear exfoliation and electrocatalysis. Journal of Materials Chemistry A, <b>2018</b> , 6, 16590-16599	13	14	
231	Electrochemical Fluorographane: Hybrid Electrocatalysis of Biomarkers, Hydrogen Evolution, and Oxygen Reduction. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 16474-8	4.8	14	
230	Transitional Metal/Chalcogen Dependant Interactions of Hairpin DNA with Transition Metal Dichalcogenides, MX2. <i>ChemPhysChem</i> , <b>2015</b> , 16, 2304-6	3.2	14	
229	Definitive proof of graphene hydrogenation by Clemmensen reduction: use of deuterium labeling. <i>Nanoscale</i> , <b>2015</b> , 7, 10535-43	7.7	14	
228	Cytotoxicity of layered metal phosphorus chalcogenides (MPXY) nanoflakes; FePS3, CoPS3, NiPS3. <i>FlatChem</i> , <b>2018</b> , 12, 1-9	5.1	14	
227	Understanding electrochemical capacitors with in-situ techniques. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 149, 111418	16.2	14	
226	Electrochemistry of Layered Semiconducting AIIIBVI Chalcogenides: Indium Monochalcogenides (InS, InSe, InTe). <i>ChemCatChem</i> , <b>2019</b> , 11, 2634-2642	5.2	13	
225	Use of deuterium labellingBvidence of graphene hydrogenation by reduction of graphite oxide using aluminium in sodium hydroxide. <i>RSC Advances</i> , <b>2015</b> , 5, 18733-18739	3.7	13	
224	Niobium-doped TiS: Formation of TiS nanobelts and their effects in enzymatic biosensors. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 155, 112114	11.8	13	
223	Large-Scale Production of Nanocrystalline Black Phosphorus Ceramics. <i>ACS Applied Materials &amp; amp; Interfaces</i> , <b>2020</b> , 12, 7381-7391	9.5	13	
222	Emerging pnictogen-based 2D semiconductors: sensing and electronic devices. <i>Nanoscale</i> , <b>2020</b> , 12, 10	)4 <del>3</del> 0-10	446	
221	Synthesis of spherical amorphous selenium nano and microparticles with tunable sizes. <i>Micro and Nano Letters</i> , <b>2016</b> , 11, 91-93	0.9	13	
220	Supercapacitors in Motion: Autonomous Microswimmers for Natural-Resource Recovery. Angewandte Chemie - International Edition, <b>2019</b> , 58, 13340-13344	16.4	13	
219	Boron and Nitrogen Doped Graphene via Microwave Exfoliation for Simultaneous Electrochemical Detection of Ascorbic Acid, Dopamine and Uric Acid. <i>Electroanalysis</i> , <b>2017</b> , 29, 45-50	3	13	

218	Synthesis, structure, thermal, transport and magnetic properties of VN ceramics. <i>Ceramics International</i> , <b>2016</b> , 42, 18779-18784	5.1	13
217	Chemistry of Germanene: Surface Modification of Germanane Using Alkyl Halides. <i>ACS Nano</i> , <b>2020</b> , 14, 7319-7327	16.7	12
216	Molecular-Scale Characterization of Photoinduced Charge Separation in Mixed-Dimensional InSe-Organic van der Waals Heterostructures. <i>ACS Nano</i> , <b>2020</b> , 14, 3509-3518	16.7	12
215	Doped and undoped graphene platforms: the influence of structural properties on the detection of polyphenols. <i>Scientific Reports</i> , <b>2016</b> , 6, 20673	4.9	12
214	Germanane synthesis with simultaneous covalent functionalization: towards highly functionalized fluorescent germananes. <i>Nanoscale</i> , <b>2019</b> , 11, 19327-19333	7.7	12
213	Cloisite Microrobots as Self-Propelling Cleaners for Fast and Efficient Removal of Improvised Organophosphate Nerve Agents. <i>ACS Applied Materials &amp; Description of the Property of the Materials of the Property of the Materials and Efficient Removal of Improvised Organophosphate Nerve Agents. ACS Applied Materials &amp; Description of the Materials and Efficient Removal of Improvised Organophosphate Nerve Agents. ACS Applied Materials &amp; Description of the Materials </i>	9.5	12
212	In Situ Doping of Black Phosphorus by High-Pressure Synthesis. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 10227-10	12538	12
211	Micromotors as "Motherships": A Concept for the Transport, Delivery, and Enzymatic Release of Molecular Cargo via Nanoparticles. <i>Langmuir</i> , <b>2019</b> , 35, 10618-10624	4	12
210	Nano-crystals of various lanthanide fluorides prepared using the ionic liquid bmimPF6. <i>Journal of Fluorine Chemistry</i> , <b>2013</b> , 149, 13-17	2.1	12
209	Effect of Electrolyte pH on the Inherent Electrochemistry of Layered Transition-Metal Dichalcogenides (MoS2, MoSe2, WS2, WSe2). <i>ChemElectroChem</i> , <b>2015</b> , 2, 1713-1718	4.3	12
208	Single-Step Synthesis of Platinoid-Decorated Phosphorene: Perspectives for Catalysis, Gas Sensing, and Energy Storage. <i>ACS Applied Materials &amp; Energy Storage</i> , 12, 50516-50526	9.5	12
207	MoS2 /WS2 -Graphene Composites through Thermal Decomposition of Tetrathiomolybdate/Tetrathiotungstate for Proton/Oxygen Electroreduction. <i>ChemPhysChem</i> , <b>2016</b> , 17, 2890-6	3.2	12
206	Exfoliation of Calcium Germanide by Alkyl Halides. Chemistry of Materials, 2019, 31, 10126-10134	9.6	12
205	Black Phosphorus Cytotoxicity Assessments Pitfalls: Advantages and Disadvantages of Metabolic and Morphological Assays. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 349-360	4.8	12
204	Functionalized metallic transition metal dichalcogenide (TaS2) for nanocomposite membranes in direct methanol fuel cells. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 6368-6381	13	12
203	Covalent Functionalization of Exfoliated Arsenic with Chlorocarbene. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 14837-14840	16.4	12
202	Chemistry of Layered Pnictogens: Phosphorus, Arsenic, Antimony, and Bismuth. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 7631-7637	3.6	11
201	Sulfur poisoning of emergent and current electrocatalysts: vulnerability of MoS2, and direct correlation to Pt hydrogen evolution reaction kinetics. <i>Nanoscale</i> , <b>2015</b> , 7, 8879-83	7.7	11

### (2020-2015)

200	Hydroboration of graphene oxide: towards stoichiometric graphol and hydroxygraphane. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 8130-6	4.8	11
199	Geographical and geological origin of natural graphite heavily influence the electrical and electrochemical properties of chemically modified graphenes. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 8435-40	4.8	11
198	Binary Phosphorene Redox Behavior in Oxidoreductase Enzymatic Systems. ACS Nano, 2019, 13, 13217	'-13 <b>327</b> 24	11
197	Magnetic control of electrochemical processes at electrode surface using iron-rich graphene materials with dual functionality. <i>Nanoscale</i> , <b>2014</b> , 6, 7391-6	7.7	11
196	Structural and optical properties of Gd implanted GaN with various crystallographic orientations. <i>Thin Solid Films</i> , <b>2017</b> , 638, 63-72	2.2	11
195	Simultaneous self-exfoliation and autonomous motion of MoS2 particles in water. <i>Chemical Communications</i> , <b>2015</b> , 51, 9899-902	5.8	11
194	Atomically Thin Nanosheets Confined in 2D Heterostructures: Metal-Ion Batteries Prospective. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2100451	21.8	11
193	Cobalt Phosphorous Trisulfide as a High-Performance Electrocatalyst for the Oxygen Evolution Reaction. <i>ACS Applied Materials &amp; amp; Interfaces</i> , <b>2021</b> , 13, 23638-23646	9.5	11
192	Partially Hydrogenated Graphene Materials Exhibit High Electrocatalytic Activities Related to Unintentional Doping with Metallic Impurities. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 8627-34	4.8	11
191	Functionalization of Hydrogenated Graphene: Transition-Metal-Catalyzed Cross-Coupling Reactions of Allylic CH Bonds. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 10909-10912	3.6	11
190	Tuning of electrocatalytic properties of MoS2 by chalcogenide ion implantation. <i>Applied Materials Today</i> , <b>2019</b> , 14, 216-223	6.6	11
189	Liquid Metals-Assisted Synthesis of Scalable 2D Nanomaterials: Prospective Sediment Inks for Screen-Printed Energy Storage Applications. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2010320	15.6	11
188	Graphite oxide based targets applied in laser matter interaction. <i>EPJ Web of Conferences</i> , <b>2018</b> , 167, 02004	0.3	11
187	Nitrogen-doped graphene based triboelectric nanogenerators. <i>Nano Energy</i> , <b>2021</b> , 87, 106173	17.1	11
186	Localized deoxygenation of graphene oxide foil by ion microbeam writing. <i>Vacuum</i> , <b>2019</b> , 163, 10-14	3.7	10
185	Light-Driven Sandwich ZnO/TiO2/Pt Janus Micromotors: Schottky Barrier Suppression by Addition of TiO2 Atomic Interface Layers into ZnO/Pt Micromachines Leading to Enhanced Fuel-Free Propulsion. <i>Small Methods</i> , <b>2019</b> , 3, 1900258	12.8	10
184	Smartdust 3D-Printed Graphene-Based Al/Ga Robots for Photocatalytic Degradation of Explosives. <i>Small</i> , <b>2020</b> , 16, e2002111	11	10
183	Bipolar Electrochemistry Exfoliation of Layered Metal Chalcogenides Sb S and Bi S and their Hydrogen Evolution Applications. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 6479-6483	4.8	10

182	Free-Standing Black Phosphorus Foils for Energy Storage and Catalysis. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 8162-8169	4.8	10
181	MoS Nanoparticles as Electrocatalytic Labels in Magneto-Immunoassays. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2018</b> , 10, 16861-16866	9.5	10
180	Multifunctional electrocatalytic hybrid carbon nanocables with highly active edges on their walls. <i>Nanoscale</i> , <b>2016</b> , 8, 6700-11	7.7	10
179	Alkali Metal Arenides as a Universal Synthetic Tool for Layered 2D Germanene Modification. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 16517-16522	16.4	10
178	Femtosecond and highly sensitive GaAs metallemiconductor thetal photodetectors grown on aluminum mirrors/pseudo-substrates. <i>Semiconductor Science and Technology</i> , <b>2010</b> , 25, 075001	1.8	10
177	Synthesis and Applications of Graphene Oxide <i>Materials</i> , <b>2022</b> , 15,	3.5	10
176	All Solution-Processed van der Waals Heterostructures for Wafer-Scale Electronics <i>Advanced Materials</i> , <b>2021</b> , e2106110	24	10
175	Black phosphorusਬrsenic alloys for lithium ion batteries. <i>FlatChem</i> , <b>2020</b> , 19, 100143	5.1	10
174	Graphane Nanostripes. Angewandte Chemie - International Edition, 2016, 55, 13965-13969	16.4	10
173	Direct Observation of Magnon-Phonon Strong Coupling in Two-Dimensional Antiferromagnet at High Magnetic Fields. <i>Physical Review Letters</i> , <b>2021</b> , 127, 097401	7.4	10
172	Layered Crystalline and Amorphous Platinum Disulfide (PtS ): Contrasting Electrochemistry. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 7330-7338	4.8	9
171	Electrochemical properties of layered SnO and PbO for energy applications. <i>RSC Advances</i> , <b>2015</b> , 5, 10 <sup>-7</sup>	19 <del>49</del> -10	01958
170	Synergetic Metals on Carbocatalyst Shungite. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 18232-18238	4.8	9
169	Fluorinated Nanocarbons Cytotoxicity. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 13020-6	4.8	9
168	Misfit-layered Bi1.85 Sr2 Co1.85 O7.7-Ifor the hydrogen evolution reaction: beyond van der Waals heterostructures. <i>ChemPhysChem</i> , <b>2015</b> , 16, 769-74	3.2	9
167	Spectroscopic thickness and quality metrics for PtSe2 layers produced by top-down and bottom-up techniques. <i>2D Materials</i> , <b>2020</b> , 7, 045027	5.9	9
166	Boron and nitrogen dopants in graphene have opposite effects on the electrochemical detection of explosive nitroaromatic compounds. <i>Electrochemistry Communications</i> , <b>2020</b> , 112, 106660	5.1	9
165	Contrasts between Mild and Harsh Oxidation of Carbon Nanotubes in terms of their Properties and Electrochemical Performance. <i>ChemElectroChem</i> , <b>2016</b> , 3, 1713-1719	4.3	9

164	The stopping power and energy straggling of light ions in graphene oxide foils. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2017</b> , 406, 173-178	1.2	8
163	Graphene/Group 5 Transition Metal Dichalcogenide Composites for Electrochemical Applications. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 10430-10437	4.8	8
162	Structure, oxygen non-stoichiometry and thermal properties of (Bi0.4Sr0.6)Sr2CoO5  Thermochimica Acta, <b>2015</b> , 600, 89-94	2.9	8
161	Synthesis of Graphene Oxide by Oxidation of Graphite with Ferrate(VI) Compounds: Myth or Reality?. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 12144-12148	3.6	8
160	Unique wettability phenomenon of carbon-bonded alumina with advanced nanocoating. <i>Applied Materials Today</i> , <b>2018</b> , 13, 24-31	6.6	8
159	Enhanced colloidal stability of nanoscale zero valent iron particles in the presence of sodium silicate water glass. <i>Environmental Technology (United Kingdom)</i> , <b>2015</b> , 36, 358-65	2.6	8
158	Flux growth of ZnO crystals doped by transition metals. <i>Journal of Crystal Growth</i> , <b>2011</b> , 314, 123-128	1.6	8
157	Microwave-Induced Structural Engineering and Pt Trapping in 6R-TaS for the Hydrogen Evolution Reaction. <i>Small</i> , <b>2020</b> , 16, e2003372	11	8
156	Phosphorene and other layered pnictogens as a new source of 2D materials for electrochemical sensors. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2021</b> , 139, 116249	14.6	8
155	Graphene oxide layers modified by irradiation with 1.0 MeV Au+ ions. <i>Surface and Interface Analysis</i> , <b>2018</b> , 50, 1110-1115	1.5	8
154	High-yield exfoliation of 2D semiconductor monolayers and reassembly of organic/inorganic artificial superlattices. <i>CheM</i> , <b>2021</b> , 7, 1887-1902	16.2	8
153	Inverted perovskite solar cells with enhanced lifetime and thermal stability enabled by a metallic tantalum disulfide buffer layer. <i>Nanoscale Advances</i> , <b>2021</b> , 3, 3124-3135	5.1	8
152	Investigation on the ability of heteroatom-doped graphene for biorecognition. <i>Nanoscale</i> , <b>2017</b> , 9, 3530	0 <del>-/</del> 3 <del>5</del> 36	7
151	Mildly oxidized SWCNT as new potential support membrane material for effective H2/CO2 separation. <i>Applied Materials Today</i> , <b>2019</b> , 15, 335-342	6.6	7
150	Fluorine saturation on thermally reduced graphene. Applied Materials Today, 2019, 15, 343-349	6.6	7
149	Inherent electrochemistry of layered post-transition metal halides: the unexpected effect of potential cycling of PbI2. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 3073-8	4.8	7
148	Modification of MoS2 structure by means of high energy ions in connection to electrical properties and light element surface adsorption. <i>Surfaces and Interfaces</i> , <b>2019</b> , 17, 100357	4.1	7
147	Synthesis, Composition, and Properties of Partially Oxidized Graphite Oxides. <i>Materials</i> , <b>2019</b> , 12,	3.5	7

146	Noncovalent Functionalization of Pnictogen Surfaces: From Small Molecules to 2D Heterostructures. <i>Small</i> , <b>2019</b> , 15, e1903495	11	7
145	Potassium assisted reduction and doping of graphene oxides: towards faster electron transfer kinetics. <i>RSC Advances</i> , <b>2013</b> , 3, 10900	3.7	7
144	Black arsenic: a new synthetic method by catalytic crystallization of arsenic glass. <i>Nanoscale</i> , <b>2020</b> , 12, 5397-5401	7.7	7
143	Enhanced voltammetric determination of metal ions by using a bismuthene-modified screen-printed electrode. <i>Electrochimica Acta</i> , <b>2020</b> , 362, 137144	6.7	7
142	Carbonaceous Oxygen Evolution Reaction Catalysts: From Defect and Doping-Induced Activity over Hybrid Compounds to Ordered Framework Structures. <i>Small</i> , <b>2021</b> , 17, e2007484	11	7
141	Graphane Nanostripes. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 14171-14175	3.6	7
140	Vanadium Dopants: A Boon or a Bane for Molybdenum Dichalcogenides-Based Electrocatalysis Applications. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2009083	15.6	7
139	Intrinsic carrier multiplication in layered Bi2O2Se avalanche photodiodes with gain bandwidth product exceeding 1 GHz. <i>Nano Research</i> , <b>2021</b> , 14, 1961-1966	10	7
138	Facile synthesis of magnetic Co nanofoam by low-temperature thermal decomposition of Co glycerolate. <i>Micro and Nano Letters</i> , <b>2017</b> , 12, 278-280	0.9	6
137	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> , <b>2019</b> , 7, 16440-16449	8.3	6
136	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> , <b>2019</b> , 7, 11721-11	7 <u>8</u> 3	6
135	Thiographene synthesized from fluorographene via xanthogenate with immobilized enzymes for environmental remediation. <i>Nanoscale</i> , <b>2019</b> , 11, 10695-10701	7.7	6
134	Phase equilibria in the ZnMnD system. <i>Journal of the European Ceramic Society</i> , <b>2015</b> , 35, 555-560	6	6
133	2D Germanane Derivative as a Vector for Overcoming Doxorubicin Resistance in Cancer Cells. <i>Applied Materials Today</i> , <b>2020</b> , 20, 100697	6.6	6
132	Layered platinum dichalcogenides (PtS2, PtSe2, PtTe2) for non-enzymatic electrochemical sensor. <i>Applied Materials Today</i> , <b>2020</b> , 19, 100606	6.6	6
131	Chalcogenide vacancies drive the electrocatalytic performance of rhenium dichalcogenides. <i>Nanoscale</i> , <b>2019</b> , 11, 14684-14690	7.7	6
130	Carcinogenic organic residual compounds readsorbed on thermally reduced graphene materials are released at low temperature. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 14446-50	4.8	6
129	Growth and characterization of GaN:Mn layers by MOVPE. <i>Journal of Crystal Growth</i> , <b>2008</b> , 310, 5025-50	0276	6

128	Prospective Advances in MXene Inks: Screen Printable Sediments for Flexible Micro-Supercapacitor Applications. <i>Journal of Materials Chemistry A</i> ,	13	6
127	Nano-LED induced chemical reactions for structuring processes. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 5421-542	75.1	6
126	Surface oxidation of Ti3C2Tx enhances the catalytic activity of supported platinum nanoparticles in ammonia borane hydrolysis. <i>2D Materials</i> , <b>2021</b> , 8, 015001	5.9	6
125	Graphitic nanofibers decorated with Ni3S2 interlaced nanosheets as efficient binder-free cathodes for hybrid supercapacitors. <i>Applied Surface Science</i> , <b>2020</b> , 505, 143828	6.7	6
124	Potential Dependent Electrochemical Exfoliation of NiPS3 and Implications for Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 11992-11999	6.1	6
123	Molybdenum Oxide Supported on TiAlC is an Active Reverse Water-Gas Shift Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 4957-4966	8.3	6
122	Functionalized Germanene-Based Nanomaterials for the Detection of Single Nucleotide Polymorphism. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 5164-5175	5.6	6
121	Two-Dimensional Gallium Sulfide Nanoflakes for UV-Selective Photoelectrochemical-type Photodetectors. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 11857-11866	3.8	6
120	Ambient-Stable Two-Dimensional CrI Organic-Inorganic Encapsulation. ACS Nano, 2021, 15, 10659-1066	5 <b>7</b> 16.7	6
119	Reducing emission of carcinogenic by-products in the production of thermally reduced graphene oxide. <i>Green Chemistry</i> , <b>2016</b> , 18, 6618-6629	10	6
118	The Structural and Compositional Changes of Graphene Oxide Induced by Irradiation With 500 keV Helium and Gallium Ions. <i>Physica Status Solidi (B): Basic Research</i> , <b>2019</b> , 256, 1800409	1.3	6
117	Surface Engineering Strategy Using Urea To Improve the Rate Performance of Na Ti O in Na-Ion Batteries. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 3875-3886	4.8	6
116	Effect of surface chemistry on bio-conjugation and bio-recognition abilities of 2D germanene materials. <i>Nanoscale</i> , <b>2021</b> , 13, 1893-1903	7.7	6
115	Molecular-level fabrication of highly selective composite ZIF-8-CNT-PDMS membranes for effective CO2/N2, CO2/H2 and olefin/paraffin separations. <i>Separation and Purification Technology</i> , <b>2021</b> , 274, 11	9863	6
114	Coordination chemistry of 2D and layered gray arsenic: photochemical functionalization with chromium hexacarbonyl. <i>NPG Asia Materials</i> , <b>2019</b> , 11,	10.3	5
113	Edge vs. basal plane electrochemistry of layered pnictogens (As, Sb, Bi): Does edge always offer faster electron transfer?. <i>Applied Materials Today</i> , <b>2019</b> , 16, 179-184	6.6	5
112	Thermodynamic properties of tubular cobaltite Bi3.7Sr11.4Co8O29\(\text{UThermochimica Acta}\), Acta, <b>2015</b> , 605, 22-27	2.9	5
111	Ferromagnetic and paramagnetic magnetization of implanted GaN:Ho,Tb,Sm,Tm films. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 17B907	2.5	5

110	Mn doped GaN nanoparticles synthesized by rapid thermal treatment in ammonia. <i>Materials Chemistry and Physics</i> , <b>2015</b> , 164, 108-114	4.4	5
109	Acetonitrile-assisted exfoliation of layered grey and black arsenic: contrasting properties. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 1282-1289	5.1	5
108	Autogenous Formation of Gold on Layered Black Phosphorus for Catalytic Purification of Waste Water. <i>ACS Applied Materials &amp; amp; Interfaces</i> , <b>2020</b> , 12, 22702-22709	9.5	5
107	Fluorographene and Graphane as an Excellent Platform for Enzyme Biocatalysis. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 16833-16839	4.8	5
106	Flexible freestanding MoS-based composite paper for energy conversion and storage. <i>Beilstein Journal of Nanotechnology</i> , <b>2019</b> , 10, 1488-1496	3	5
105	Preparation and luminescent properties of cubic potassium-erbium fluoride nanoparticles. <i>Journal of Fluorine Chemistry</i> , <b>2013</b> , 156, 363-366	2.1	5
104	Introduction of sulfur to graphene oxide by Friedel-Crafts reaction. FlatChem, 2017, 6, 28-36	5.1	5
103	Phase equilibria in the Bi-Sr-Co-O system: Towards the material tailoring of thermoelectric cobaltites. <i>Journal of the European Ceramic Society</i> , <b>2015</b> , 35, 3005-3012	6	5
102	6FDA-DAM:DABA Co-Polyimide Mixed Matrix Membranes with GO and ZIF-8 Mixtures for Effective CO/CH Separation. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	5
101	Photoelectrochemical Activity of Layered Metal Phosphorous Trichalcogenides for Water Oxidation. <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2100294	4.6	5
100	Ferromagnetism: Sulfur Doping Induces Strong Ferromagnetic Ordering in Graphene: Effect of Concentration and Substitution Mechanism (Adv. Mater. 25/2016). <i>Advanced Materials</i> , <b>2016</b> , 28, 5139	24	5
99	Hybrid optoelectronics based on a nanocrystal/III-N nano-LED platform <b>2016</b> ,		5
98	The structural and optical properties of metal ion-implanted GaN. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 371, 254-257	1.2	5
97	Fluorographenes for Energy and Sensing Application: The Amount of Fluorine Matters. <i>ACS Omega</i> , <b>2018</b> , 3, 17700-17706	3.9	5
96	Laser modification of graphene oxide layers. <i>EPJ Web of Conferences</i> , <b>2018</b> , 167, 04010	0.3	5
95	Chiral Phonons and Giant Magneto-Optical Effect in CrBr 2D Magnet. <i>Advanced Materials</i> , <b>2021</b> , 33, e21	0:1:618	5
94	Highly exfoliated NiPS3 nanosheets as efficient electrocatalyst for high yield ammonia production. <i>Chemical Engineering Journal</i> , <b>2021</b> , 430, 132649	14.7	5
93	Functionalized germanane/SWCNT hybrid films as flexible anodes for lithium-ion batteries. <i>Nanoscale Advances</i> , <b>2021</b> , 3, 4440-4446	5.1	5

## (2021-2017)

92	A study of the effect of sonication time on the catalytic performance of layered WS from various sources. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 2768-2777	3.6	4	
91	Planar Polyolefin Nanostripes: Perhydrogenated Graphene. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 11961-11968	4.8	4	
90	MnPS3 shows anticancer behaviour towards lung cancer cells. <i>FlatChem</i> , <b>2019</b> , 18, 100134	5.1	4	
89	Surface Energy of Black Phosphorus Alloys with Arsenic. <i>ChemNanoMat</i> , <b>2020</b> , 6, 821-826	3.5	4	
88	Freestanding LiFe0.2Mn0.8PO4/rGO nanocomposites as high energy density fast charging cathodes for lithium-ion batteries. <i>Materials Today Energy</i> , <b>2020</b> , 16, 100416	7	4	
87	Hydrogenation of Fluorographite and Fluorographene: An Easy Way to Produce Highly Hydrogenated Graphene. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 8350-8360	4.8	4	
86	Synthesis and properties of phosphorus and sulfur co-doped graphene. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 16093-16102	3.6	4	
85	Rapid thermal synthesis of GaN nanocrystals and nanodisks. <i>Journal of Nanoparticle Research</i> , <b>2013</b> , 15, 1	2.3	4	
84	Thermal properties of graphite oxide, thermally reduced graphene and chemically reduced graphene <b>2017</b> ,		4	
83	Graphene: Oxygen-Free Highly Conductive Graphene Papers (Adv. Funct. Mater. 31/2014). <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 4877-4877	15.6	4	
82	Residual strain in recessed AlGaN/GaN heterostructure field-effect transistors evaluated by micro photoluminescence measurements. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2012</b> , 9, 911-914		4	
81	In-situ doping and implantation of GaN layers with Mn. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2009</b> , 6, S646-S649		4	
80	Influence of different SiC surface treatments performed prior to Ni ohmic contacts formation. <i>Microelectronic Engineering</i> , <b>2011</b> , 88, 553-556	2.5	4	
79	MoS stacking matters: 3R polytype significantly outperforms 2H MoS for the hydrogen evolution reaction. <i>Nanoscale</i> , <b>2021</b> , 13, 19391-19398	7.7	4	
78	Rhenium Doping of Layered Transition-Metal Diselenides Triggers Enhancement of Photoelectrochemical Activity. <i>ACS Nano</i> , <b>2021</b> , 15, 2374-2385	16.7	4	
77	Covalent Functionalization of Exfoliated Arsenic with Chlorocarbene. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 15053-15056	3.6	4	
76	Layered ZnIn2S4 Single Crystals for Ultrasensitive and Wearable Photodetectors. <i>Advanced Optical Materials</i> ,2100845	8.1	4	
75	CeO-Blended Cellulose Triacetate Mixed-Matrix Membranes for Selective CO Separation.  Membranes, 2021, 11,	3.8	4	

74	Comparison between layered Pt3Te4 and PtTe2 for electrocatalytic reduction reactions. <i>FlatChem</i> , <b>2021</b> , 29, 100280	5.1	4
73	Liquid-Phase Exfoliated Gallium Selenide for Light-Driven Thin-Film Transistors. <i>Advanced Electronic Materials</i> , <b>2021</b> , 7, 2001080	6.4	4
72	Mix-and-Read No-Wash Fluorescence DNA Sensing System Using Graphene Oxide: Analytical Performance of Fresh Versus Aged Dispersions. <i>ACS Omega</i> , <b>2019</b> , 4, 1611-1616	3.9	3
71	Polydimethylsiloxanegraphene oxide composite improving performance by ion beam irradiation. <i>Surface and Interface Analysis</i> , <b>2020</b> , 52, 1156-1162	1.5	3
70	Microcapacitors on graphene oxide and synthetic polymers prepared by microbeam lithography. <i>Applied Surface Science</i> , <b>2020</b> , 528, 146802	6.7	3
69	Phase Transformation Induced Self-Healing Behavior of Al-Ag Alloy. <i>Materials</i> , <b>2018</b> , 11,	3.5	3
68	Chemical bonding and thermodynamic properties of gallium and indium monochalcogenides. <i>Journal of Chemical Thermodynamics</i> , <b>2019</b> , 128, 97-102	2.9	3
67	Bipolar Electrochemistry as a Simple Synthetic Route toward Nanoscale Transition of Mo2B5 and W2B5 for Enhanced Hydrogen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> ,	8.3	3
66	Thermodynamic properties of misfit cobaltite [Bi2-xCa2O4][CoO2]1.7. <i>Thermochimica Acta</i> , <b>2017</b> , 656, 129-134	2.9	3
65	Biohybrid Micro- and Nanorobots for Intelligent Drug Delivery. <i>Cyborg and Bionic Systems</i> , <b>2022</b> , 2022, 1-13	0	3
64	Multifunctional Photoelectroactive Platform for CO2 Reduction toward C2+ Products-Programmable Selectivity with a Bioinspired Polymer Coating. <i>ACS Catalysis</i> ,1558-1571	13.1	3
63	Improved CO/CH Separation Properties of Cellulose Triacetate Mixed-Matrix Membranes with CeO@GO Hybrid Fillers. <i>Membranes</i> , <b>2021</b> , 11,	3.8	3
62	Prediction Clue on the Fading Capacity of Multi-Walled Carbon Nanotube-Decorated Li2(Fe1\mathbb{U}Tix)SiO4/C High-Performance Cathode Materials. <i>Energy &amp; Decorated</i> 25, 2021, 35, 8321-8333	4.1	3
61	Picric acid violet light assisted photodegradation mediated by germanene-based materials. <i>Bulletin of the Chemical Society of Japan</i> ,	5.1	3
60	Metall-Phosphor-Trichalkogenide (MPCh3): von der Synthese zu aktuellen Energieanwendungen. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 9426-9438	3.6	3
59	Lithium-Assisted Exfoliation of Palladium Thiophosphate Nanosheets for Photoelectrocatalytic Water Splitting. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 441-448	5.6	3
58	2D Heterostructures for Highly Efficient Photodetectors: From Advanced Synthesis to Characterizations, Mechanisms, and Device Applications. <i>Advanced Photonics Research</i> ,2100342	1.9	3
57	Topochemical Transformation of Two-Dimensional VSe into Metallic Nonlayered VO for Water Splitting Reactions in Acidic and Alkaline Media <i>ACS Nano</i> , <b>2021</b> ,	16.7	3

## (2015-2017)

56	Structural and optical properties of vanadium ion-implanted GaN. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2017</b> , 406, 53-57	1.2	2
55	Structural transition induced by niobium doping in layered titanium disulfide: The impact on electrocatalytic performance. <i>Applied Materials Today</i> , <b>2020</b> , 19, 100555	6.6	2
54	A simplified protocol for the usage of new immuno-SERS probes for the detection of casein, collagens and ovalbumin in the cross-sections of artworks. <i>Analytical Methods</i> , <b>2018</b> , 10, 1054-1062	3.2	2
53	GO/2D WS2 Based Humidity Sensor. <i>Proceedings (mdpi)</i> , <b>2017</b> , 1, 469	0.3	2
52	Molybdenum Disulfide: Lithium Intercalation Compound Dramatically Influences the Electrochemical Properties of Exfoliated MoS2 (Small 5/2015). <i>Small</i> , <b>2015</b> , 11, 604-604	11	2
51	Synthesis of InN nanoparticles by rapid thermal ammonolysis. <i>Journal of Nanoparticle Research</i> , <b>2014</b> , 16, 1	2.3	2
50	Oxidized Al Film as an Insulation Layer in AlGaN/GaN Metal Dxide Bemiconductor Heterostructure Field Effect Transistors. <i>Japanese Journal of Applied Physics</i> , <b>2010</b> , 49, 046504	1.4	2
49	Fine-tuning the functionality of reduced graphene oxide via bipolar electrochemistry in freestanding 2D reaction layers. <i>Carbon</i> , <b>2022</b> , 191, 439-447	10.4	2
48	Self-Powered Broadband Photodetector and Sensor Based on Novel Few-Layered Pd(PS) Nanosheets. <i>ACS Applied Materials &amp; Acs Applied &amp; A</i>	9.5	2
47	Ruthenium on Alkali-Exfoliated Ti3(Al0.8Sn0.2)C2 MAX Phase Catalyses Reduction of 4-Nitroaniline with Ammonia Borane. <i>ChemCatChem</i> , <b>2021</b> , 13, 3470-3478	5.2	2
46	Photocatalytic activity of twist-angle stacked 2D TaS2. Npj 2D Materials and Applications, 2021, 5,	8.8	2
45	A Metal-Doped Fungi-Based Biomaterial for Advanced Electrocatalysis. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 3828-3834	4.8	2
44	The Role of Alkali Cation Intercalates on the Electrochemical Characteristics of Nb CT MXene for Energy Storage. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 13235-13241	4.8	2
43	Sub-millimetre scale Van der Waals single-crystal MoTe2 for potassium storage: Electrochemical properties, and its failure and structure evolution mechanisms. <i>Energy Storage Materials</i> , <b>2021</b> , 43, 284	-2 <del>92</del> 4	2
42	Surface modification by high-energy heavy-ion irradiation in various crystalline ZnO facets. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 22673-22684	3.6	2
41	Supercapacitors in Motion: Autonomous Microswimmers for Natural-Resource Recovery.  Angewandte Chemie, <b>2019</b> , 131, 13474-13478	3.6	1
40	Innentitelbild: Pnictogen (As, Sb, Bi) Nanosheets for Electrochemical Applications Are Produced by Shear Exfoliation Using Kitchen Blenders (Angew. Chem. 46/2017). <i>Angewandte Chemie</i> , <b>2017</b> , 129, 145	51 <del>3</del> -614!	510
39	Selective Nitrogen Functionalization of Graphene by Bucherer-Type Reaction. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 7969-7969	4.8	1

38	Electrochemistry of Cd3As2A 3D Analogue of Graphene. <i>ChemNanoMat</i> , <b>2015</b> , 1, 359-363	3.5	1
37	GaN:Co epitaxial layers grown by MOVPE. Journal of Crystal Growth, 2015, 414, 62-68	1.6	1
36	Investigation of AlN growth on sapphire substrates in a horizontal MOVPE reactor. <i>Journal of Physics and Chemistry of Solids</i> , <b>2007</b> , 68, 1131-1134	3.9	1
35	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
34	Enhanced voltammetric performance of sensors based on oxidized 2D layered black phosphorus. <i>Talanta</i> , <b>2022</b> , 238, 123036	6.2	1
33	Hexagonal and Cubic Boron Nitride in Bulk and Nanosized Forms and Their Capacitive Behavior. <i>ChemElectroChem</i> , <b>2020</b> , 7, 74-77	4.3	1
32	Layered black phosphorus as a reducing agent - decoration with group 10 elements <i>RSC Advances</i> , <b>2020</b> , 10, 36452-36458	3.7	1
31	Stabilization of Black Phosphorus by Sonication-Assisted Simultaneous Exfoliation and Functionalization. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 17581-17587	4.8	1
30	InGaN mesoscopic structures for low energy consumption nano-opto-electronics 2016,		1
29	Self-reconstruction mediates isolated Pt tailored nanoframes for highly efficient catalysis. <i>Journal of Materials Chemistry A</i> ,	13	1
28	Electrochemical Exfoliation of Janus-like BiTeI Nanosheets for Electrocatalytic Nitrogen Reduction. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 590-599	5.6	1
27	Reprint of <b>G</b> raphene oxide layers modified by irradiation with 1.2 MeV He+ ions <i>Surface and Coatings Technology</i> , <b>2018</b> , 355, 301-306	4.4	1
26	Integration of BiOI nanosheets into bubble-propelled micromotors for efficient water purification. <i>FlatChem</i> , <b>2021</b> , 100294	5.1	1
25	Edge-Hydrogenated Germanene by Electrochemical Decalcification-Exfoliation of CaGe: Germanene-Enabled Vapor Sensor. <i>ACS Nano</i> , <b>2021</b> , 15, 16709-16718	16.7	1
24	Modified Single-Walled Carbon Nanotube Membranes for the Elimination of Antibiotics from Water. <i>Membranes</i> , <b>2021</b> , 11,	3.8	1
23	Synthesis of Magnesium Phosphorous Trichalcogenides and Applications in Photoelectrochemical Water Splitting <i>Small</i> , <b>2022</b> , e2200355	11	1
22	Photomodification of benzyl germanane with group 6 metal carbonyls. FlatChem, 2022, 33, 100354	5.1	1
21	Flexible, ultralight, and high-energy density electrochemical capacitors using sustainable materials. <i>Electrochimica Acta</i> , <b>2022</b> , 415, 140239	6.7	1

20	Co-doping graphene with B and N heteroatoms for application in energy conversion and storage devices. <i>ChemNanoMat</i> ,	3.5	1
19	Low-Temperature PM IRRAS of a Monolayer on Au: Spectra of CDSH. <i>Langmuir</i> , <b>2017</b> , 33, 5613-5616	4	О
18	Selenium covalently modified graphene: towards gas sensing. 2D Materials, 2019, 6, 034006	5.9	О
17	Exfoliated Fe3GeTe2 and Ni3GeTe2 materials as water splitting electrocatalysts. <i>FlatChem</i> , <b>2022</b> , 32, 100334	5.1	О
16	Mineralizer-free synthesis of orthorhombic arsenic-phosphorus alloys. <i>FlatChem</i> , <b>2021</b> , 30, 100297	5.1	О
15	Structural Manipulation of Layered TiS2 to TiS3 Nanobelts through Niobium Doping for High-Performance Supercapacitors. <i>ChemElectroChem</i> , <b>2020</b> , 7, 4985-4989	4.3	О
14	Pnictogen-Based Enzymatic Phenol Biosensors: Phosphorene, Arsenene, Antimonene, and Bismuthene. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 140-144	3.6	0
13	Modification of structure and surface morphology in various ZnO facets via low fluence gold swift heavy ion irradiation. <i>Surface and Interface Analysis</i> , <b>2021</b> , 53, 230-243	1.5	Ο
12	Overcoming the Challenges of Freestanding Tin Oxide-Based Composite Anodes to Achieve High Capacity and Increased Cycling Stability. <i>Advanced Functional Materials</i> ,2106373	15.6	0
11	The effectiveness of Soxhlet extraction as a simple method for GO rinsing as a precursor of high-quality graphene. <i>Nanoscale Advances</i> , <b>2021</b> , 3, 5292-5300	5.1	О
10	Electroactive nanocarbon materials as signaling tags for electrochemical PCR <i>Talanta</i> , <b>2022</b> , 245, 123	4 <b>76</b> 9.2	0
9	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> , <b>2022</b> , 12, 12211-12218	3.7	Ο
8	Comparison of GO and polymer microcapacitors prepared by ion beam writing. <i>Surface and Interface Analysis</i> , <b>2020</b> , 52, 1171-1177	1.5	
7	Alkali Metal Arenides as a Universal Synthetic Tool for Layered 2D Germanene Modification. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 16669-16674	3.6	
6	Voltammetry of Layered Black Phosphorus: Electrochemistry of Multilayer Phosphorene. <i>ChemElectroChem</i> , <b>2015</b> , 2, 295-295	4.3	
5	Synthesis of Er-complexes for photonic applications. <i>Journal of Physics and Chemistry of Solids</i> , <b>2007</b> , 68, 1272-1275	3.9	
4	Porous glass doping by Er3+ for photonics applications. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2007</b> , 18, 379-382	2.1	
3	A short investigation on LiMn2O4 wrapped with MWCNT as composite cathode for lithium-ion batteries. <i>Bulletin of Materials Science</i> , <b>2021</b> , 44, 1	1.7	

The multi-energetic Au ion implantation of graphene oxide and polymers. *EPJ Web of Conferences*, **2022**, 261, 02006

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