YÃ¼cel ÅahÄ°n

List of Publications by Year
in descending order

125 papers	5,429 citations	81900 39 h-index	98798 67 g-index
127 all docs	127 docs citations	127 times ranked	4453 citing authors

#	Article	IF	Citations
1	Carbon sponge as a new cathode material for the electro-Fenton process: Comparison with carbon felt cathode and application to degradation of synthetic dye basic blue 3 in aqueous medium. Journal of Electroanalytical Chemistry, 2008, 616, 71-78.	3.8	346
2	Determination of paracetamol based on electropolymerized-molecularly imprinted polypyrrole modified pencil graphite electrode. Sensors and Actuators B: Chemical, 2007, 127, 362-369.	7.8	290
3	Removal of Acid Orange 7 from water by electrochemically generated Fenton's reagent. Journal of Hazardous Materials, 2009, 163, 1213-1220.	12.4	251
4	Development of air stable polymer solar cells using an inverted gold on top anode structure. Thin Solid Films, 2005, 476, 340-343.	1.8	164
5	Degradation of picloram by the electro-Fenton process. Journal of Hazardous Materials, 2008, 153, 718-727.	12.4	152
6	Electrochemical Preparation of a Molecularly Imprinted Polypyrrole-modified Pencil Graphite Electrode for Determination of Ascorbic Acid. Sensors, 2008, 8, 5792-5805.	3.8	144
7	Propham mineralization in aqueous medium by anodic oxidation using boron-doped diamond anode: Influence of experimental parameters on degradation kinetics and mineralization efficiency. Water Research, 2008, 42, 2889-2898.	11.3	138
8	Non-enzymatic glucose biosensor based on overoxidized polypyrrole nanofiber electrode modified with cobalt(II) phthalocyanine tetrasulfonate. Biosensors and Bioelectronics, 2008, 24, 512-517.	10.1	136
9	A comparative study on the efficiency of electro-Fenton process in the removal of propham from water. Applied Catalysis B: Environmental, 2009, 89, 620-626.	20.2	120
10	Preparation of different heteroatom doped graphene oxide based electrodes by electrochemical method and their supercapacitor applications. Journal of Energy Storage, 2021, 35, 102328.	8.1	111
11	Voltammetric Behaviour of Sulfamethoxazole on Electropolymerized-Molecularly Imprinted Overoxidized Polypyrrole. Sensors, 2008, 8, 8463-8478.	3.8	108
12	Novel Fused Dâ^'A Dyad and Aâ^'Dâ^'A Triad Incorporating Tetrathiafulvalene andp-Benzoquinone. Journal of Organic Chemistry, 2004, 69, 2164-2177.	3.2	104
13	A critical review on progress of the electrode materials of vanadium redox flow battery. International Journal of Energy Research, 2020, 44, 7903-7923.	4.5	99
14	Preparation of selective and sensitive electrochemically treated pencil graphite electrodes for the determination of uric acid in urine and blood serum. Biosensors and Bioelectronics, 2010, 25, 2497-2502.	10.1	88
15	A novel approach for the selective determination of tryptophan in blood serum in the presence of tyrosine based on the electrochemical reduction of oxidation product of tryptophan formed in situ on graphite electrode. Biosensors and Bioelectronics, 2012, 31, 26-31.	10.1	85
16	A new dioxime ligand and its trinuclear copper(II) complex: Synthesis, characterization and optical properties. Optics Communications, 2007, 272, 131-137.	2.1	80
17	Electrochemistry coupled to fluorescence spectroscopy: a new versatile approach. Electrochemistry Communications, 2004, 6, 325-330.	4.7	73
18	One-step electrochemical preparation of graphene-coated pencil graphite electrodes by cyclic voltammetry and their application in vanadium redox batteries. Electrochimica Acta, 2017, 243, 239-249.	5.2	69

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19	A novel copper(<scp>Ä±Ä±</scp>) phthalocyanine-modified multiwalled carbon nanotube-based electrode for sensitive electrochemical detection of bisphenol A. New Journal of Chemistry, 2019, 43, 85-92.	2.8	69
20	A novel approach for the determination of paracetamol based on the reduction of N-acetyl-p-benzoquinoneimine formed on the electrochemically treated pencil graphite electrode. Analytica Chimica Acta, 2011, 685, 9-14.	5.4	67
21	Removal of propham from water by using electro-Fenton technology: Kinetics and mechanism. Chemosphere, 2008, 73, 737-744.	8.2	58
22	One-step synthesized N-doped graphene-based electrode materials for supercapacitor applications. Ionics, 2021, 27, 2241-2256.	2.4	58
23	Electrochemical fabrication and supercapacitor performances of metallo phthalocyanine/functionalized-multiwalled carbon nanotube/polyaniline modified hybrid electrode materials. Journal of Energy Storage, 2021, 33, 102049.	8.1	56
24	Voltammetric and electrochemical impedimetric behavior of silica-based gel electrolyte for valve-regulated lead-acid battery. Journal of Solid State Electrochemistry, 2014, 18, 2469-2479.	2.5	54
25	Preparation of Sulphur-Doped Graphene-Based Electrodes by Cyclic Voltammetry: A Potential Application for Vanadium Redox Flow Battery. International Journal of Electrochemical Science, 2018, 13, 875-885.	1.3	54
26	Electrochemically controlled solid-phase microextraction (EC-SPME) based on overoxidized sulfonated polypyrrole. Talanta, 2005, 67, 245-251.	5.5	53
27	A twoâ€dimensional material for high capacity supercapacitors: Sâ€doped graphene. International Journal of Energy Research, 2020, 44, 1624-1635.	4.5	53
28	Electrochemical synthesis and anti-corrosive properties of polyaniline, poly(2-anisidine), and poly(aniline-co-2-anisidine) films on stainless steel. Progress in Organic Coatings, 2005, 54, 63-72.	3.9	52
29	Preparation of sulfonated overoxidized polypyrrole film applicable as an SPME tool for cationic analytes. Journal of Electroanalytical Chemistry, 2004, 570, 6-12.	3.8	51
30	Anti-corrosive properties of polyaniline, poly(2-toluidine), and poly(aniline-co-2-toluidine) coatings on stainless steel. Current Applied Physics, 2007, 7, 597-604.	2.4	51
31	Selective and Sensitive Voltammetric Determination of Dopamine in Blood by Electrochemically Treated Pencil Graphite Electrodes. Electroanalysis, 2009, 21, 2363-2370.	2.9	49
32	Electrodeposition of polyaniline, poly(2-iodoaniline), and poly(aniline-co-2-iodoaniline) on steel surfaces and corrosion protection of steel. Applied Surface Science, 2005, 252, 1233-1244.	6.1	46
33	Complete removal of the insecticide azinphos-methyl from water by the electro-Fenton method â€“ A kinetic and mechanistic study. Water Research, 2013, 47, 1470-1479.	11.3	46
34	Oneâ€step electrochemical preparation of ternary phthalocyanine/acidâ€activated multiwalled carbon nanotube/polypyroleâ€based electrodes and their supercapacitor applications. International Journal of Energy Research, 2020, 44, 9093-9111.	4.5	45
35	Preparation of N-doped graphene-based electrode via electrochemical method and its application in vanadium redox flow battery. International Journal of Energy Research, 2018, 42, 3851-3860.	4.5	44
36	Synthesis and non-linear optical properties of mono-pyrrolotetrathiafulvalene derived donorâ€“Ïâ€“acceptor dyads. Journal of Materials Chemistry, 2004, 14, 179-184.	6.7	43

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37	Novel chlorine doped graphene electrodes for positive electrodes of a vanadium redox flow battery. International Journal of Energy Research, 2018, 42, 3303-3314.	4.5	42
38	Electrochemical Determination of Tartrazine Using a Graphene/Poly(L-Phenylalanine) Modified Pencil Graphite Electrode. Analytical Letters, 2020, 53, 1683-1703.	1.8	42
39	Copper(i/ii) complexes of a bis(tetrathiafulvalene)-2,2â€²-bipyridine: synthesis, characterization, magnetic and electrochemical properties. Dalton Transactions, 2006, , 1331-1337.	3.3	41
40	Electrochemical Oxidation of dsâ€ÐNA on Polypyrrole Nanofiber Modified Pencil Graphite Electrode. Electroanalysis, 2007, 19, 2208-2216.	2.9	41
41	Electrochemical polymerization of fluoro- and chloro-substituted anilines and copolymers with aniline. Journal of Applied Polymer Science, 2004, 91, 2302-2312.	2.6	40
42	Voltammetric determination of nitrite with gold nanoparticles/poly(methylene blue)-modified pencil graphite electrode: application in food and water samples. Ionics, 2018, 24, 3187-3197.	2.4	40
43	Ion chromatography-potentiometric detection of inorganic anions and cations using polypyrrole and overoxidized polypyrrole electrode. Sensors and Actuators B: Chemical, 2008, 133, 5-14.	7.8	39
44	Electropolymerization and in situ sulfonation of aniline in waterâ€“acetonitrile mixture containing FSO3H. Synthetic Metals, 2002, 131, 7-14.	3.9	37
45	Cyclic voltammetric preparation of graphene-coated electrodes for positive electrode materials of vanadium redox flow battery. Ionics, 2018, 24, 3641-3654.	2.4	37
46	Electrochemical synthesis of self-doped polyaniline in fluorosulfonic acid/acetonitrile solution. Synthetic Metals, 2002, 129, 107-115.	3.9	36
47	Electrochemical investigation of the effects of V(V) and sulfuric acid concentrations on positive electrolyte for vanadium redox flow battery. International Journal of Hydrogen Energy, 2016, 41, 9868-9875.	7.1	36
48	Corrosion inhibition of stainless steel by polyaniline, poly(2-chloroaniline), and poly(aniline-co-2-chloroaniline) in HCl. Progress in Organic Coatings, 2006, 57, 149-158.	3.9	35
49	Electrochemically Treated Pencil Graphite Electrodes Prepared in One Step for the Electrochemical Determination of Paracetamol. Russian Journal of Electrochemistry, 2018, 54, 796-808.	0.9	34
50	Preparation of Nâ€doped graphene powders by cyclic voltammetry and a potential application of them: Anode materials of Liâ€ion batteries. International Journal of Energy Research, 2019, 43, 5346-5354.	4.5	34
51	In situ electrochemical solid-phase extraction of anions and cations using polypyrrole and overoxidized sulfonated polypyrrole. Talanta, 2008, 75, 369-375.	5.5	33
52	Electro-Fenton treatment of aqueous Clopyralid solutions. International Journal of Environmental Analytical Chemistry, 2010, 90, 478-486.	3.3	33
53	Preparation of a novel electrochemical sensor for phosphate detection based on a molybdenum blue modified poly(vinyl chloride) coated pencil graphite electrode. Analytical Methods, 2019, 11, 3874-3881.	2.7	33
54	A novel vanadium/cobalt redox couple in aqueous acidic solution for redox flow batteries. International Journal of Energy Research, 2020, 44, 411-424.	4.5	33

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55	Fabrication of high-performance symmetrical coin cell supercapacitors by using one step and green synthesis sulfur doped graphene powders. New Journal of Chemistry, 2021, 45, 6928-6939.	2.8	33
56	A spectroelectrochemical study on single-oscillator model and optical constants of sulfonated polyaniline film. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2008, 71, 621-627.	3.9	32
57	A novel polysiloxane-based polymer as a gel agent for gelâ€“VRLA batteries. Ionics, 2017, 23, 2077-2089.	2.4	32
58	Direct, one-step synthesis of molybdenum blue using an electrochemical method, and characterization studies. Synthetic Metals, 2017, 233, 111-118.	3.9	32
59	Electropolymerization of m-aminophenol on mild steel and its corrosion protection effect. Progress in Organic Coatings, 2007, 60, 153-160.	3.9	30
60	Fabrication of Tetra-Substituted Copper(II) Phthalocyanine-Graphene Modified Pencil Graphite Electrode for Amperometric Detection of Hydrogen Peroxide. ECS Journal of Solid State Science and Technology, 2020, 9, 061003.	1.8	30
61	N-Doped Graphene Oxide as Additive for Fumed Silica Based Gel Electrolyte of Valve Regulated Lead Acid Batteries. Journal of the Electrochemical Society, 2021, 168, 060512.	2.9	30
62	Highly Sensitive Electrochemical Determination of Dopamine with an Overoxidized Polypyrrole Nanofiber Pencil Graphite Electrode. International Journal of Electrochemical Science, 2017, 12, 6428-6444.	1.3	29
63	Electrochemical Determination of Sunset Yellow Using an Electrochemically Prepared Graphene Oxide Modified â€“ Pencil Graphite Electrode (EGO-PGE). Analytical Letters, 2021, 54, 394-416.	1.8	29
64	Anti-precipitation effects of TiO2 and TiOSO4 on positive electrolyte of vanadium redox battery. International Journal of Hydrogen Energy, 2017, 42, 25608-25618.	7.1	28
65	Poly(L-Cysteine) Modified Pencil Graphite Electrode for Determination of Sunset Yellow in Food and Beverage Samples by Differential Pulse Voltammetry. International Journal of Electrochemical Science, 2018, 13, 159-174.	1.3	28
66	Electrochemical synthesis of sulfonated polypyrrole in FSO3H/acetonitrile solution. Journal of Applied Polymer Science, 2004, 93, 526-533.	2.6	27
67	Removal of calcium and magnesium using polyaniline and derivatives modified PVDF cation-exchange membranes by Donnan dialysis. Reactive and Functional Polymers, 2009, 69, 673-680.	4.1	27
68	A novel green and one-step electrochemical method for production of sulfur-doped graphene powders and their performance as an anode in Li-ion battery. Ionics, 2020, 26, 4909-4919.	2.4	27
69	Preparation of anatase form of TiO2 thin film at room temperature by electrochemical method as an alternative electron transport layer for inverted type organic solar cells. Thin Solid Films, 2020, 706, 138093.	1.8	27
70	Electrochemical preparation of soluble sulfonated polymers and aniline copolymers of aniline sulfonic acids in dimethylsulfoxide. Journal of Applied Polymer Science, 2003, 90, 2163-2169.	2.6	26
71	Effect of Î±- and Î³-alumina on the precipitation of positive electrolyte in vanadium redox battery. International Journal of Hydrogen Energy, 2017, 42, 25598-25607.	7.1	26
72	A novel electrolyte additive for gel type valve regulated lead acid batteries: Sulfur doped graphene oxide. International Journal of Energy Research, 2021, 45, 21390-21402.	4.5	26

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73	An ultrahighâ€energy density and wide potential window aqueous electrolyte supercapacitor built by polypyrrole/aniline 2â€sulfonic acid modified carbon felt electrode. International Journal of Energy Research, 2022, 46, 8042-8060.	4.5	26
74	Electrochemical synthesis of poly(2-iodoaniline) and poly(aniline-co-2-iodoaniline) in acetonitrile. Journal of Applied Polymer Science, 2003, 89, 1652-1658.	2.6	24
75	Electrochemical synthesis and characterization of a new soluble conducting polymer. Journal of Materials Science, 2009, 44, 3148-3155.	3.7	24
76	Electroanalytical Determination of Some Sulfonamides on Overoxidized Polypyrrole Electrodes. Australian Journal of Chemistry, 2011, 64, 965.	0.9	24
77	A new coumarin based Schiff base fluorescence probe for zinc ion. Tetrahedron, 2021, 88, 132127.	1.9	24
78	Electrochemical formation of molybdenum phosphate on a pencil graphite electrode and its potential application for the detection of phosphate ions. Analytical Methods, 2018, 10, 4282-4291.	2.7	23
79	A green approach to fabricate <scp>binderâ€free Sâ€doped</scp> graphene oxide electrodes for vanadium redox battery. International Journal of Energy Research, 2021, 45, 2126-2137.	4.5	23
80	Synthesis of Phosphorus Doped Graphenes via the Yucelâ€™s Method as the Positive Electrode of a Vanadium Redox Flow Battery. Journal of the Electrochemical Society, 2021, 168, 060504.	2.9	23
81	Novel composite materials consisting of polypyrrole and metal organic frameworks for supercapacitor applications. Journal of Energy Storage, 2022, 48, 103699.	8.1	23
82	Electrochemical synthesis and characterization of self-doped aniline 2-sulfonic acid-modified flexible electrode with high areal capacitance and rate capability for supercapacitors. Synthetic Metals, 2022, 285, 117017.	3.9	22
83	Electrochemical copolymerization of aniline and anilinesulfonic acids in FSO3H/acetonitrile solution. Journal of Applied Polymer Science, 2002, 85, 1227-1235.	2.6	21
84	Determination of ascorbic acid by polypyrrole potentiometric detector in ion chromatography. Biosensors and Bioelectronics, 2009, 24, 3492-3497.	10.1	21
85	Electrochemical Determination of Paracetamol by a Novel Derivative of Formazan Modified Pencil Graphite Electrode. IEEE Sensors Journal, 2014, 14, 2529-2536.	4.7	20
86	Preparation of electrochemically treated nanoporous pencil-graphite electrodes for the simultaneous determination of Pb and Cd in water samples. Analytical and Bioanalytical Chemistry, 2017, 409, 4827-4837.	3.7	20
87	A performance comparison of protective silicate-coated lead and non-coated lead electrodes in various kind electrolytes of gel valve-regulated lead-acid battery. Ionics, 2018, 24, 3655-3664.	2.4	20
88	Electrochemical preparation of poly(2-bromoaniline) and poly(aniline-co-2-bromoaniline) in acetonitrile. Journal of Applied Polymer Science, 2003, 90, 2460-2468.	2.6	19
89	Solidâ€phase microextraction and ion chromatographic analysis of anions based on polypyrrole electrode. Journal of Applied Polymer Science, 2008, 108, 3298-3304.	2.6	19
90	Synthesis, structural and optical properties of novel borylated Cu(II) and Co(II) metal complexes of 4-benzylaminobiphenylglyoxime. Journal of Organometallic Chemistry, 2007, 692, 2473-2481.	1.8	18

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91	Differential Pulse Voltammetric Determination of Folic Acid Using a Poly(Cystine) Modified Pencil Graphite Electrode. Analytical Letters, 2020, 53, 2060-2078.	1.8	18
92	Oligomeric Tetrathiafulvalenes: A New Route toward Conjugated TTF Dimers and Trimers. Organic Letters, 2004, 6, 1569-1572.	4.6	17
93	Corrosion performance of self-doped sulfonated polypyrrole coatings on stainless steel. Materials Chemistry and Physics, 2006, 100, 19-25.	4.0	17
94	A novel interface layer for inverted perovskite solar cells fabricated in ambient air under high humidity conditions. Solar Energy, 2020, 209, 400-407.	6.1	16
95	Chrome and cobaltâ€based novel electrolyte systems for redox flow batteries. International Journal of Energy Research, 2020, 44, 8014-8023.	4.5	16
96	<scp>Oneâ€step</scp>synthesis of nitrogenâ€doped graphene powders and application of them as<scp>highâ€performance</scp>symmetrical coin cell supercapacitors in different aqueous electrolyte. International Journal of Energy Research, 2022, 46, 7348-7373.	4.5	15
97	Hydrothermal Synthesis of Flexible Feâ€Doped Polyaniline/Dyeâ€Functionalized Carbon Felt Electrode for Supercapacitor Applications. ChemistrySelect, 2022, 7, .	1.5	14
98	Electrochemical polymerization of acetylene with copper catalyst on platinum and copper electrodes. Synthetic Metals, 2002, 129, 117-121.	3.9	13
99	Effect of UV exposure of ITO/PEDOT:PSS substrates on the performance of inverted-type perovskite solar cells. Journal of Materials Science: Materials in Electronics, 2020, 31, 7968-7980.	2.2	13
100	Selective Electrochemical Sensing of Riboflavin Based on Functionalized Multi-Walled Carbon Nanotube/Gold Nanoparticle/Pencil Graphite Electrode. ECS Journal of Solid State Science and Technology, 2020, 9, 121003.	1.8	13
101	An ultra-high power density supercapacitor: Cu(II) phthalocyanine tetrasulfonic acid tetrasodium salt doped polyaniline. Journal of Alloys and Compounds, 2022, 919, 165689.	5.5	13
102	A novel electrolytes for redox flow batteries: Cerium and chromium couples in aqueous system. International Journal of Energy Research, 2021, 45, 16176-16188.	4.5	12
103	Voltammetric Method for Determining Ferric Ions with Quercetin. Electroanalysis, 2021, 33, 2115-2121.	2.9	12
104	Preparation of Copper Doped Conducting Polymers and Their Supercapacitor Applications. ECS Journal of Solid State Science and Technology, 2022, 11, 033004.	1.8	12
105	Determination of sulfamethoxazole in pharmaceutical formulations by flow injection system/HPLC with potentiometric detection using polypyrrole electrode. Journal of the Brazilian Chemical Society, 2011, 22, 2171-2177.	0.6	11
106	Electrochemical synthesis, characterization and capacitive properties of novel thiophene based conjugated polymer. Reactive and Functional Polymers, 2014, 83, 107-112.	4.1	11
107	Production of chlorine-containing functional group doped graphene powders using Yucel's method as anode materials for Li-ion batteries. RSC Advances, 2021, 11, 40059-40071.	3.6	10
108	Single Step Electrochemical Semiâ€Exfoliated Sâ€Doped Grapheneâ€Like Structures from Commercial Carbon Fiber as Efficient Metalâ€Free Catalyst for Hydrogen Evolution Reaction. ChemElectroChem, 2022, 9, .	3.4	10

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109	A new approach to prepare Nâ€‘Sâ€‘doped freeâ€‘standing graphene oxides for vanadium redox flow battery. International Journal of Energy Research, 2022, 46, 19992-20003.	4.5	10
110	Biocompatibility of designed MicNo-ZnO particles: Cytotoxicity, genotoxicity and phototoxicity in human skin keratinocyte cells. Toxicology in Vitro, 2018, 47, 238-248.	2.4	9
111	Investigation of supercapacitor properties of chlorine-containing functional groups doped graphene electrodes. Journal of Electroanalytical Chemistry, 2022, 918, 116438.	3.8	9
112	One-step potentiostatic codeposition and electrochemical studies of Journal of Chemistry, 2018, 42, 958-973.	1.2	8
113	New Approach Synthesis of S, N Coâ€‘Doped Graphenes for Highâ€‘Performance Supercapacitors. ChemistrySelect, 2022, 7, .	1.5	8
114	The substituent effects on the structure and surface morphology of polyaniline. Journal of Applied Polymer Science, 2010, 115, 3024-3030.	2.6	7
115	Zn Phthalocyanine Derivatives for Solutionâ€‘Processed Small Molecule Organic Solar Cells. ChemistrySelect, 2018, 3, 13692-13699.	1.5	7
116	Costâ€‘effective and Facile Production of a Phosphorusâ€‘doped Graphite Electrode for the Electrochemical Determination of Pyridoxine. Electroanalysis, 2021, 33, 1657-1667.	2.9	7
117	Thiophene Functionalized Porphyrin for Electrochemical Carbon Dioxide Reduction. Journal of the Electrochemical Society, 2021, 168, 126512.	2.9	7
118	Electroanalytical determination of Allura Red in beverage samples using an anodically pretreated graphite electrode. International Journal of Environmental Analytical Chemistry, 2023, 103, 3544-3562.	3.3	6
119	Highly Sensitive Electrochemical Determination of Acetaminophen in Pharmaceuticals by Poly[2, 5-di(2-Thiophenyl)-1-p-(Tolyl)Pyrrole] Modified Pencil Graphite Electrode. IEEE Sensors Journal, 2016, 16, 2914-2921.	4.7	5
120	Synthesis of anatase particles via morphological control of titanium glycerolate intermediate precursor. CrystEngComm, 2019, 21, 4250-4254.	2.6	5
121	Differential Pulse Voltammetric (DPV) Determination of Phosphomolybdenum Complexes by a Poly(Vinyl Chloride) Coated Molybdenum Blue Modified Pencil Graphite Electrode (PVC-MB-PGE). Analytical Letters, 2021, 54, 492-511.	1.8	5
122	Ultrasensitive Electrochemical Detection of Carcinoembryonic Antigen with a Labelâ€‘Free Immunosensor Using Gold Nanoparticleâ€‘Decorated Poly(pyroleâ€‘coâ€‘3,4â€‘ethylenedioxythiophene). ChemElectroChem, 2022, 9, .	3.4	4
123	Manipulating cell behavior on a bacterial macro-polymer poly (3-hydroxybutyrate-co-3-hydroxyhexanoate) via tuning the S-doped graphene ratio. International Journal of Biological Macromolecules, 2021, 182, 2076-2086.	7.5	2
124	Acid Cleaning of Titanium Based Scales Formed on Preheaters in the Bayer Process. , 2012, , 225-228.		1
125	Polypyrrole doped graphene nanocomposites as advanced positive electrodes for vanadium redox flow battery. Journal of Materials Science: Materials in Electronics, 0, , .	2.2	0