Chun Kiang Chua

List of Publications by Year
in descending order

78 papers	6,688 citations	87723 38 h-index	60497 81 g-index
91 all docs	91 docs citations	91 times ranked	10529 citing authors

#	Article	IF	Citations
1	Deodorizing the king of fruits: Durian stalk deodorizes the aroma of durian. Journal of the Chinese Chemical Society, 2021, 68, 532-535.	0.8	0
2	Rapid and Sensitive Direct Detection of Endotoxins by Pyrolysisâ€“Gas Chromatographyâ€“Mass Spectrometry. ACS Omega, 2021, 6, 15192-15198.	1.6	5
3	Improving annotation of known-unknowns with accurately reconstructed mass spectra. International Journal of Mass Spectrometry, 2020, 451, 116321.	0.7	4
4	Mass spectral reconstruction of LC/MS data with entropy minimization. International Journal of Mass Spectrometry, 2020, 454, 116359.	0.7	4
5	Lower limit of detection achieved by raw band-target entropy minimization (rBTEM) for trace and coeluted gas chromatography-mass spectrometry components. Analytical Letters, 2019, 52, 1579-1589.	1.0	3
6	Morphologyâ€Dependent Magnetism in Nanographene: Beyond Nanoribbons. Advanced Functional Materials, 2018, 28, 1800592.	7.8	5
7	An optimized band-target entropy minimization for mass spectral reconstruction of severely co-eluting and trace-level components. Analytical and Bioanalytical Chemistry, 2018, 410, 6549-6560.	1.9	10
8	Graphene: Morphology-Dependent Magnetism in Nanographene: Beyond Nanoribbons (Adv. Funct.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	7.8	0
9	Dynamic background noise removal from overlapping GC-MS peaks via an entropy minimization algorithm. Analytical Methods, 2017, 9, 2667-2672.	1.3	8
10	Nitrogen-doped graphene: effect of graphite oxide precursors and nitrogen content on the electrochemical sensing properties. Physical Chemistry Chemical Physics, 2017, 19, 15914-15923.	1.3	33
11	Elimination of Matrix Interferences in <scp>GCâ€MS</scp> Analysis of Pesticides by Entropy Minimization. Journal of the Chinese Chemical Society, 2017, 64, 804-812.	0.8	2
12	Chemically Reduced Graphene Oxide for the Assessment of Food Quality: How the Electrochemical Platform Should Be Tailored to the Application. Chemistry - A European Journal, 2017, 23, 1930-1936.	1.7	7
13	DNA biosensing with 3D printing technology. Analyst, The, 2017, 142, 279-283.	1.7	82
14	Graphitic carbon nitride: Effects of various precursors on the structural, morphological and electrochemical sensing properties. Applied Materials Today, 2017, 8, 150-162.	2.3	56
15	Graphene and its electrochemistry â€“ an update. Chemical Society Reviews, 2016, 45, 2458-2493.	18.7	366
16	Functionalization of Hydrogenated Graphene: Transitionâ€Metalâ€Catalyzed Crossâ€Coupling Reactions of Allylic Câˆ’Hâ€‰Bonds. Angewandte Chemie, 2016, 128, 10909-10912.	1.6	12
17	Functionalization of Hydrogenated Graphene: Transitionâ€Metalâ€Catalyzed Crossâ€Coupling Reactions of Allylic Câˆ’Hâ€‰Bonds. Angewandte Chemie - International Edition, 2016, 55, 10751-10754.	7.2	22
18	Topâ€Down and Bottomâ€Up Approaches in Engineering 1â€‰T Phase Molybdenum Disulfide (MoS₂): Towards Highly Catalytically Active Materials. Chemistry - A European Journal, 2016, 22, 14336-14341.	1.7	45

#	Article	IF	Citations
19	Nanostructured MoS₂ Nanorose/Graphene Nanoplatelet Hybrids for Electrocatalysis. Chemistry - A European Journal, 2016, 22, 5969-5975.	1.7	14
20	Ball-milled sulfur-doped graphene materials contain metallic impurities originating from ball-milling apparatus: their influence on the catalytic properties. Physical Chemistry Chemical Physics, 2016, 18, 17875-17880.	1.3	42
21	Facile labelling of graphene oxide for superior capacitive energy storage and fluorescence applications. Physical Chemistry Chemical Physics, 2016, 18, 9673-9681.	1.3	20
22	Electrochemistry of layered GaSe and GeS: applications to ORR, OER and HER. Physical Chemistry Chemical Physics, 2016, 18, 1699-1711.	1.3	77
23	Remarkable electrochemical properties of electrochemically reduced graphene oxide towards oxygen reduction reaction are caused by residual metal-based impurities. Electrochemistry Communications, 2016, 62, 17-20.	2.3	30
24	The reduction of graphene oxide with hydrazine: elucidating its reductive capability based on a reaction-model approach. Chemical Communications, 2016, 52, 72-75.	2.2	117
25	Selective Nitrogen Functionalization of Graphene by Bucherer-Type Reaction. Chemistry - A European Journal, 2015, 21, 7969-7969.	1.7	1
26	Graphene Oxide: Light and Atmosphere Affect the Quasi-equilibrium States of Graphite Oxide and Graphene Oxide Powders (Small 11/2015). Small, 2015, 11, 1265-1265.	5.2	2
27	Selective Nitrogen Functionalization of Graphene by Buchererâ€Type Reaction. Chemistry - A European Journal, 2015, 21, 8090-8095.	1.7	19
28	Fluorinated Nanocarbons Cytotoxicity. Chemistry - A European Journal, 2015, 21, 13020-13026.	1.7	10
29	Fluorographene: Dichlorocarbene-Functionalized Fluorographene: Synthesis and Reaction Mechanism (Small 31/2015). Small, 2015, 11, 3789-3789.	5.2	2
30	Misfitâ€Layered Bi_{1.85}Sr₂Co_{1.85}O_{7.7â^'<i>Î´</i>} for the Hydrogen Evolution Reaction: Beyond van der Waals Heterostructures. ChemPhysChem, 2015, 16, 769-774.	1.0	10
31	Synthesis of Strongly Fluorescent Graphene Quantum Dots by Cage-Opening Buckminsterfullerene. ACS Nano, 2015, 9, 2548-2555.	7.3	248
32	Susceptibility of FeS2 hydrogen evolution performance to sulfide poisoning. Electrochemistry Communications, 2015, 58, 29-32.	2.3	13
33	Intrinsic electrochemical performance and precise control of surface porosity of graphene-modified electrodes using the drop-casting technique. Electrochemistry Communications, 2015, 59, 86-90.	2.3	28
34	Monothiolation and Reduction of Graphene Oxide <i>via</i> One-Pot Synthesis: Hybrid Catalyst for Oxygen Reduction. ACS Nano, 2015, 9, 4193-4199.	7.3	92
35	Layered transition metal oxyhydroxides as tri-functional electrocatalysts. Journal of Materials Chemistry A, 2015, 3, 11920-11929.	5.2	80
36	Dichlorocarbeneâ€Functionalized Fluorographene: Synthesis and Reaction Mechanism. Small, 2015, 11, 3790-3796.	5.2	32

#	Article	IF	Citations
37	High temperature superconducting materials as bi-functional catalysts for hydrogen evolution and oxygen reduction. Journal of Materials Chemistry A, 2015, 3, 8346-8352.	5.2	25
38	Carbocatalysis: The State of â€œMetalâ€Freeâ€•Catalysis. Chemistry - A European Journal, 2015, 21, 12550-12562	1.7	104
39	Refinements to the structure of graphite oxide: absolute quantification of functional groups via selective labelling. Nanoscale, 2015, 7, 20256-20266.	2.8	76
40	Inherent Electrochemistry of Layered Postâ€Transition Metal Halides: The Unexpected Effect of Potential Cycling of PbI₂. Chemistry - A European Journal, 2015, 21, 3073-3078.	1.7	10
41	Light and Atmosphere Affect the Quasiâ€equilibrium States of Graphite Oxide and Graphene Oxide Powders. Small, 2015, 11, 1266-1272.	5.2	34
42	Regeneration of a Conjugated sp² Graphene System through Selective Defunctionalization of Epoxides by Using a Proven Synthetic Chemistry Mechanism. Chemistry - A European Journal, 2014, 20, 1871-1877.	1.7	25
43	Oxidation Debris in Graphene Oxide Is Responsible for Its Inherent Electroactivity. ACS Nano, 2014, 8, 4197-4204.	7.3	77
44	Chemical reduction of graphene oxide: a synthetic chemistry viewpoint. Chemical Society Reviews, 2014, 43, 291-312.	18.7	1,479
45	Detection of biomarkers with graphene nanoplatelets and nanoribbons. Analyst, The, 2014, 139, 1072.	1.7	41
46	Chemical Preparation of Graphene Materials Results in Extensive Unintentional Doping with Heteroatoms and Metals. Chemistry - A European Journal, 2014, 20, 15760-15767.	1.7	39
47	Electron transfer properties of chemically reduced graphene materials with different oxygen contents. Journal of Materials Chemistry A, 2014, 2, 10668-10675.	5.2	64
48	Towards Graphane Applications in Security: The Electrochemical Detection of Trinitrotoluene in Seawater on Hydrogenated Graphene. Electroanalysis, 2014, 26, 62-68.	1.5	32
49	Alternating Misfit Layered Transition/Alkaline Earth Metal Chalcogenide Ca₃Co₄O₉ as a New Class of Chalcogenide Materials for Hydrogen Evolution. Chemistry of Materials, 2014, 26, 4130-4136.	3.2	68
50	Graphene oxide nanoribbons exhibit significantly greater toxicity than graphene oxide nanoplatelets. Nanoscale, 2014, 6, 10792-10797.	2.8	59
51	Permanganate-Route-Prepared Electrochemically Reduced Graphene Oxides Exhibit Limited Anodic Potential Window. Journal of Physical Chemistry C, 2014, 118, 23368-23375.	1.5	3
52	Electrochemistry of Graphene and Related Materials. Chemical Reviews, 2014, 114, 7150-7188.	23.0	968
53	Rational Design of Carboxyl Groups Perpendicularly Attached to a Graphene Sheet: A Platform for Enhanced Biosensing Applications. Chemistry - A European Journal, 2014, 20, 217-222.	1.7	43
54	Chemically Modified Graphenes as Detectors in Labâ€onâ€Chip Device. Electroanalysis, 2013, 25, 945-950.	1.5	27

#	Article	IF	Citations
55	Prolonged exposure of graphite oxide to soft X-ray irradiation during XPS measurements leads to alterations of the chemical composition. Analyst, The, 2013, 138, 7012.	1.7	11
56	Detection of silver nanoparticles on a <scp>l</scp>abâ€onâ€chip platform. Electrophoresis, 2013, 34, 2007-2010.	1.3	16
57	Unusual Inherent Electrochemistry of Graphene Oxides Prepared Using Permanganate Oxidants. Chemistry - A European Journal, 2013, 19, 12673-12683.	1.7	86
58	Reduction of graphene oxide with substituted borohydrides. Journal of Materials Chemistry A, 2013, 1, 1892-1898.	5.2	127
59	Selective Removal of Hydroxyl Groups from Graphene Oxide. Chemistry - A European Journal, 2013, 19, 2005-2011.	1.7	54
60	Covalent chemistry on graphene. Chemical Society Reviews, 2013, 42, 3222.	18.7	335
61	Graphenes prepared from multi-walled carbon nanotubes and stacked graphene nanofibers for detection of 2,4,6-trinitrotoluene (TNT) in seawater. Analyst, The, 2013, 138, 1700.	1.7	32
62	Graphene Oxide Nanoribbons from the Oxidative Opening of Carbon Nanotubes Retain Electrochemically Active Metallic Impurities. Angewandte Chemie - International Edition, 2013, 52, 8685-8688.	7.2	54
63	Innentitelbild: Graphene Oxide Nanoribbons from the Oxidative Opening of Carbon Nanotubes Retain Electrochemically Active Metallic Impurities (Angew. Chem. 33/2013). Angewandte Chemie, 2013, 125, 8634-8634.	1.6	0
64	Graphenes Prepared by Hummers, Staudenmaier and Hofmann Methods for Analysis of TNTâ€Based Nitroaromatic Explosives in Seawater. Electroanalysis, 2012, 24, 2085-2093.	1.5	40
65	Reduction Pathways of 2,4,6-Trinitrotoluene: An Electrochemical and Theoretical Study. Journal of Physical Chemistry C, 2012, 116, 4243-4251.	1.5	88
66	Graphite Oxides: Effects of Permanganate and Chlorate Oxidants on the Oxygen Composition. Chemistry - A European Journal, 2012, 18, 13453-13459.	1.7	156
67	Inherently Electroactive Graphene Oxide Nanoplatelets As Labels for Single Nucleotide Polymorphism Detection. ACS Nano, 2012, 6, 8546-8551.	7.3	113
68	Renewal of sp2 bonds in graphene oxides via dehydrobromination. Journal of Materials Chemistry, 2012, 22, 23227.	6.7	73
69	Influence of parent graphite particle size on the electrochemistry of thermally reduced graphene oxide. Physical Chemistry Chemical Physics, 2012, 14, 12794.	1.3	28
70	Graphene oxide reduction by standard industrial reducing agent: thiourea dioxide. Journal of Materials Chemistry, 2012, 22, 11054.	6.7	125
71	Introducing dichlorocarbene in graphene. Chemical Communications, 2012, 48, 5376.	2.2	51
72	Chemically reduced graphene contains inherent metallic impurities present in parent natural and synthetic graphite. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12899-12904.	3.3	195

#	Article	IF	Citations
73	Friedelâ€“Crafts Acylation on Graphene. Chemistry - an Asian Journal, 2012, 7, 1009-1012.	1.7	52
74	Graphene Sheet Orientation of Parent Material Exhibits Dramatic Influence on Graphene Properties. Chemistry - an Asian Journal, 2012, 7, 2367-2372.	1.7	23
75	Lithium Aluminum Hydride as Reducing Agent for Chemically Reduced Graphene Oxides. Chemistry of Materials, 2012, 24, 2292-2298.	3.2	187
76	Graphene Oxides Exhibit Limited Cathodic Potential Window Due to Their Inherent Electroactivity. Journal of Physical Chemistry C, 2011, 115, 17647-17650.	1.5	43
77	Influence of Methyl Substituent Position on Redox Properties of Nitroaromatics Related to 2,4,6â€Trinitrotoluene. Electroanalysis, 2011, 23, 2350-2356.	1.5	42
78	Graphene based nanomaterials as electrochemical detectors in Lab-on-a-chip devices. Electrochemistry Communications, 2011, 13, 517-519.	2.3	50