Alex R Harris

List of Publications by Citations

56 papers	1,056 citations	19 h-index	31 g-index
58 ext. papers	1,163 ext. citations	4.5 avg, IF	4.53 L-index

#	Paper	IF	Citations
56	Copper(I) dicyanamide coordination polymers: ladders, sheets, layers, diamond-like networks and unusual interpenetration. *Dalton Transactions RSC*, **2000**, 3829-3836		130
55	Conducting polymer coated neural recording electrodes. *Journal of Neural Engineering*, **2013**, 10, 016004	5	84
54	Tuning the electrocrystallization parameters of semiconducting Co[TCNQ]2-based materials to yield either single nanowires or crystalline thin films. *Journal of the American Chemical Society*, **2007**, 129, 2369-82	16.4	73
53	Controlling Brain Cells With Light: Ethical Considerations for Optogenetic Clinical Trials. *AJOB Neuroscience*, **2014**, 5, 3-11	0.8	68
52	Voltammetric, EQCM, Spectroscopic, and Microscopic Studies on the Electrocrystallization of Semiconducting, Phase I, CuTCNQ on Carbon, Gold, and Platinum Electrodes by a Nucleation-Growth Process. *Journal of the Electrochemical Society*, **2005**, 152, C577	3.9	56
51	Coordination Polymers of Dicyanamide and Methylpyrazine: Syntheses, Structures, and Magnetic Properties. *Crystal Growth and Design*, **2004**, 4, 605-610	3.5	46
50	Voltammetric ion-selective electrodes for the selective determination of cations and anions. *Analytical Chemistry*, **2010**, 82, 1624-33	7.8	40
49	Voltammetric, Spectroscopic, and Microscopic Investigations of Electrocrystallized Forms of Semiconducting AgTCNQ (TCNQ = 7,7,8,8-Tetracyanoquinodimethane) Exhibiting Different Morphologies and Colors. *Chemistry of Materials*, **2007**, 19, 5499-5509	9.6	39
48	Crystal Engineering with Mercuric Chloride. *Crystal Growth and Design*, **2002**, 2, 87-89	3.5	38
47	Organic Electrodes and Communications with Excitable Cells. *Advanced Functional Materials*, **2018**, 28, 1700587	15.6	33
46	Characterisation of two distinctly different processes associated with the electrocrystallization of microcrystals of phase I CuTCNQ (TCNQ = 7,7,8,8-tetracyanoquinodimethane). *Journal of Materials Chemistry*, **2006**, 16, 4397		29
45	Electrocrystallization of Phase I, CuTCNQ (TCNQ = 7,7,8,8-Tetracyanoquinodimethane), on indium tin oxide and boron-doped diamond electrodes. *Langmuir*, **2006**, 22, 10499-505	4	28
44	Applications of voltammetric ion selective electrodes to complex matrices. *Analytical Methods*, **2013**, 5, 3840	3.2	26
43	Electrochemical studies of porphyrin-appended dendrimers. *Physical Chemistry Chemical Physics*, **2006**, 8, 2058-65	3.6	23
42	Facile Development of a Fiber-Based Electrode for Highly Selective and Sensitive Detection of Dopamine. *ACS Sensors*, **2019**, 4, 2599-2604	9.2	21
41	Optical and electrochemical methods for determining the effective area and charge density of conducting polymer modified electrodes for neural stimulation. *Analytical Chemistry*, **2015**, 87, 738-46	7.8	21
40	Measuring the effective area and charge density of platinum electrodes for bionic devices. *Journal of Neural Engineering*, **2018**, 15, 046015	5	20

39	AFM study of morphological changes associated with electrochemical solid–solid transformation of three-dimensional crystals of TCNQ to metal derivatives (metal = Cu, Co, Ni; TCNQ = tetracyanoquinodimethane). *Journal of Solid State Electrochemistry*, **2008**, 12, 739-746	2.6	20
38	PEDOT doped with algal, mammalian and synthetic dopants: polymer properties, protein and cell interactions, and influence of electrical stimulation on neuronal cell differentiation. *Biomaterials Science*, **2018**, 6, 1250-1261	7.4	19
37	Correlation of the impedance and effective electrode area of doped PEDOT modified electrodes for brain-machine interfaces. *Analyst, The*, **2015**, 140, 3164-74	5	19
36	Structure and magnetism of the ladder-like coordination polymer Co3(dca)2(nic)4(H2O)8·2H2O [dca = dicyanamide anion, N(CN)2−; nic = nicotinate anion]. *CrystEngComm*, **2002**, 4, 202-204	3.3	19
35	Structural and Magnetic Properties of the Coordination Polymer Mn(dca)2(H2O)2·2Me4pyz, dca = Dicyanamide (N(CN)2-), Me4pyz = Tetramethylpyrazine. *Australian Journal of Chemistry*, **2002**, 55, 311	1.2	18
34	Theoretical and experimental evaluation of screen-printed tubular carbon ink disposable sensor well electrodes by dc and Fourier transformed ac voltammetry. *Journal of Solid State Electrochemistry*, **2009**, 13, 551-563	2.6	13
33	Using Chronopotentiometry to Better Characterize the Charge Injection Mechanisms of Platinum Electrodes Used in Bionic Devices. *Frontiers in Neuroscience*, **2019**, 13, 380	5.1	11
32	Conductive and protein resistant polypyrrole films for dexamethasone delivery. *Journal of Materials Chemistry B*, **2016**, 4, 2570-2577	7.3	11
31	Thin-film micro-electrode stimulation of the cochlea in rats exposed to aminoglycoside induced hearing loss. *Hearing Research*, **2016**, 331, 13-26	3.9	10
30	Efficacy Testing as a Primary Purpose of Phase 1 Clinical Trials: Is it Applicable to First-in-Human Bionics and Optogenetics Trials?. *AJOB Neuroscience*, **2012**, 3, 20-22	0.8	10
29	Efficient strategy for quality control of screen-printed carbon ink disposable sensor electrodes based on simultaneous evaluation of resistance, capacitance and Faradaic current by Fourier transform AC voltammetry. *Journal of Solid State Electrochemistry*, **2008**, 12, 1301-1315	2.6	10
28	Effective Area and Charge Density of Iridium Oxide Neural Electrodes. *Electrochimica Acta*, **2017**, 230, 285-292	6.7	9
27	Effective area and charge density of dextran sulphate doped PEDOT modified electrodes. *Synthetic Metals*, **2016**, 220, 394-401	3.6	9
26	trans-Tetraaquabis(pyridine-3-carboxylate-N)nickel(II). *Acta Crystallographica Section E: Structure Reports Online*, **2001**, 57, m9-m11		9
25	Predicting neural recording performance of implantable electrodes. *Analyst, The*, **2019**, 144, 2973-2983	5	8
24	Effective Area and Charge Density of Chondroitin Sulphate Doped PEDOT Modified Electrodes. *Electrochimica Acta*, **2016**, 197, 99-106	6.7	8
23	Electrochemical methods for analysing and controlling charge transfer at the electrode–tissue interface. *Current Opinion in Electrochemistry*, **2019**, 16, 143-148	7.2	8
22	Insights into the Electron Transfer Kinetics, Capacitance and Resistance Effects of Implantable Electrodes Using Fourier Transform AC Voltammetry on Platinum. *Journal of the Electrochemical Society*, **2019**, 166, G131-G140	3.9	7

21	Is a "last Chance" Treatment Possible After an Irreversible Brain Intervention?. *AJOB Neuroscience*, **2015**, 6, W1-W2	0.8	6
20	Charge Injection from Chronoamperometry of Platinum Electrodes for Bionic Devices. *Journal of the Electrochemical Society*, **2018**, 165, G3033-G3041	3.9	6
19	Correlation of Impedance and Effective Electrode Area of Iridium Oxide Neural Electrodes. *Australian Journal of Chemistry*, **2017**, 70, 1016	1.2	5
18	trans-Tetraaquabis(pyridine-4-carboxylate-κN)nickel(II). *Acta Crystallographica Section E: Structure Reports Online*, **2001**, 57, m7-m8		5
17	Restoring vision using optogenetics without being blind to the risks. *Graefe's Archive for Clinical and Experimental Ophthalmology*, **2021**, 260, 41	3.8	5
16	Correlation of Impedance and Effective Electrode Area of Dextran Sulfate Doped PEDOT Modified Electrodes. *Journal of the Electrochemical Society*, **2016**, 163, H534-H540	3.9	5
15	Impact of Protein Fouling on the Charge Injection Capacity, Impedance, and Effective Electrode Area of Platinum Electrodes for Bionic Devices. *ChemElectroChem*, **2021**, 8, 1078-1090	4.3	5
14	Current perspectives on the safe electrical stimulation of peripheral nerves with platinum electrodes. *Bioelectronics in Medicine*, **2020**, 3, 37-49	2.1	4
13	Fibrinogen, collagen, and transferrin adsorption to poly(3,4-ethylenedioxythiophene)-xylorhamno-uronic glycan composite conducting polymer biomaterials for wound healing applications. *Biointerphases*, **2021**, 16, 021003	1.8	4
12	Correlation of impedance and effective electrode area of chondroitin sulphate doped PEDOT modified electrodes. *Synthetic Metals*, **2016**, 222, 338-343	3.6	3
11	Burnt in Your Memory or Burnt Memory? Ethical Issues with Optogenetics for Memory Modification. *AJOB Neuroscience*, **2021**, 12, 22-24	0.8	3
10	A method for systematic electrochemical and electrophysiological evaluation of neural recording electrodes. *Journal of Visualized Experiments*, **2014**,	1.6	2
9	Comparison of the In Vitro and In Vivo Electrochemical Performance of Bionic Electrodes.. *Micromachines*, **2022**, 13,	3.3	2
8	Induced Pluripotent Stem Cell-Based Systems for Personalising Epilepsy Treatment: Research Ethics Challenges and New Insights for the Ethics of Personalised Medicine. *AJOB Neuroscience*, **2021**, 1-12	0.8	2
7	Phase change in tetraphenylphosphonium perchlorate. *Acta Crystallographica Section C: Crystal Structure Communications*, **2000**, 56 Pt 11, 1394-5		1
6	Visualising the risks of clinical trials for fair treatment and appropriate informed consent of participants.. *Graefe's Archive for Clinical and Experimental Ophthalmology*, **2022**, 1	3.8	1
5	Biomedical Applications of Organic Conducting Polymers **2019**, 783-812		1
4	Military Medicine Research: Incorporation of High Risk of Irreversible Harms into a Stratified Risk Framework for Clinical Trials. *Military and Humanitarian Health Ethics*, **2022**, 253-273	0.3	1

3	Modeling Emergent Properties in the Brain Using Tissue Models to Investigate Neurodegenerative Disease. *Neuroscientist*, **2020**, 26, 224-230	7.6	1
2	Understanding Charge Transfer on the Clinically Used Conical Utah Electrode Array: Charge Storage Capacity, Electrochemical Impedance Spectroscopy and Effective Electrode Area. *Journal of Neural Engineering*, **2021**,	5	1
1	Enhanced x-ray imaging for a thin film cochlear implant with metal artefacts using phase retrieval tomography. *Journal of Applied Physics*, **2012**, 111, 114904	2.5	