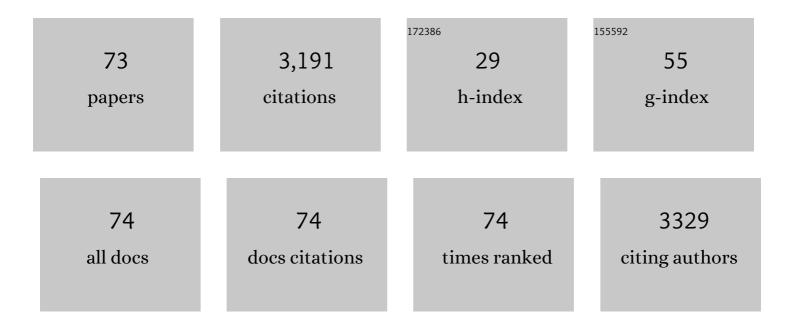
## Nadim Darwish

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Electrostatic catalysis of a Diels–Alder reaction. Nature, 2016, 531, 88-91.	13.7	596
2	Harnessing electrostatic catalysis in single molecule, electrochemical and chemical systems: a rapidly growing experimental tool box. Chemical Society Reviews, 2018, 47, 5146-5164.	18.7	207
3	Observation of Electrochemically Controlled Quantum Interference in a Single Anthraquinoneâ€Based Norbornylogous Bridge Molecule. Angewandte Chemie - International Edition, 2012, 51, 3203-3206.	7.2	150
4	Multi-Responsive Photo- and Chemo-Electrical Single-Molecule Switches. Nano Letters, 2014, 14, 7064-7070.	4.5	134
5	Electrochemical and Electrostatic Cleavage of Alkoxyamines. Journal of the American Chemical Society, 2018, 140, 766-774.	6.6	129
6	Electroconductive Hydrogel Based on Functional Poly(Ethylenedioxy Thiophene). Chemistry of Materials, 2016, 28, 6080-6088.	3.2	96
7	Single-molecule electrical contacts on silicon electrodes under ambient conditions. Nature Communications, 2017, 8, 15056.	5.8	93
8	Distance-Dependent Electron Transfer at Passivated Electrodes Decorated by Gold Nanoparticles. Analytical Chemistry, 2013, 85, 1073-1080.	3.2	91
9	Importance of the Indium Tin Oxide Substrate on the Quality of Self-Assembled Monolayers Formed from Organophosphonic Acids. Langmuir, 2011, 27, 2545-2552.	1.6	73
10	The corona of a surface bubble promotes electrochemical reactions. Nature Communications, 2020, 11, 6323.	5.8	72
11	Chemically and Mechanically Controlled Single-Molecule Switches Using Spiropyrans. ACS Applied Materials & Interfaces, 2019, 11, 36886-36894.	4.0	69
12	Reproducible flaws unveil electrostatic aspects of semiconductor electrochemistry. Nature Communications, 2017, 8, 2066.	5.8	68
13	Single Molecular Switches: Electrochemical Gating of a Single Anthraquinone-Based Norbornylogous Bridge Molecule. Journal of Physical Chemistry C, 2012, 116, 21093-21097.	1.5	66
14	Studies on the Effect of Solvents on Self-Assembled Monolayers Formed from Organophosphonic Acids on Indium Tin Oxide. Langmuir, 2012, 28, 9487-9495.	1.6	64
15	TEMPO Monolayers on Si(100) Electrodes: Electrostatic Effects by the Electrolyte and Semiconductor Space-Charge on the Electroactivity of a Persistent Radical. Journal of the American Chemical Society, 2016, 138, 9611-9619.	6.6	64
16	The rise of selfâ€assembled monolayers for fabricating electrochemical biosensors—an interfacial perspective. Chemical Record, 2012, 12, 92-105.	2.9	62
17	Metal–Single-Molecule–Semiconductor Junctions Formed by a Radical Reaction Bridging Gold and Silicon Electrodes. Journal of the American Chemical Society, 2019, 141, 14788-14797.	6.6	62
18	Highly Conductive Single-Molecule Wires with Controlled Orientation by Coordination of Metalloporphyrins. Nano Letters, 2014, 14, 4751-4756.	4.5	48

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19	Electrochemistry on Tribocharged Polymers Is Governed by the Stability of Surface Charges Rather than Charging Magnitude. Journal of the American Chemical Society, 2019, 141, 5863-5870.	6.6	47
20	Surface-Bound Molecular Rulers for Probing the Electrical Double Layer. Journal of the American Chemical Society, 2012, 134, 7539-7544.	6.6	40
21	Probing the Effect of the Solution Environment around Redox-Active Moieties Using Rigid Anthraquinone Terminated Molecular Rulers. Journal of the American Chemical Society, 2012, 134, 18401-18409.	6.6	40
22	Control over Near-Ballistic Electron Transport through Formation of Parallel Pathways in a Single-Molecule Wire. Journal of the American Chemical Society, 2019, 141, 240-250.	6.6	39
23	Harnessing silicon facet-dependent conductivity to enhance the direct-current produced by a sliding Schottky diode triboelectric nanogenerator. Nano Energy, 2020, 78, 105210.	8.2	37
24	Strategies To Achieve Control over the Surface Ratio of Two Different Components on Modified Electrodes Using Aryldiazonium Salts. Langmuir, 2016, 32, 2509-2517.	1.6	36
25	The spontaneous formation of single-molecule junctions via terminal alkynes. Nanotechnology, 2015, 26, 381001.	1.3	35
26	Switching of Current Rectification Ratios within a Single Nanocrystal by Facet-Resolved Electrical Wiring. ACS Nano, 2018, 12, 8071-8080.	7.3	34
27	Fineâ€Tuning of Singleâ€Molecule Conductance by Tweaking Both Electronic Structure and Conformation of Side Substituents. Chemistry - A European Journal, 2015, 21, 7716-7720.	1.7	33
28	The impact of surface coverage on the kinetics of electron transfer through redox monolayers on a silicon electrode surface. Electrochimica Acta, 2015, 186, 216-222.	2.6	33
29	Experimental Evidence of Long-Lived Electric Fields of Ionic Liquid Bilayers. Journal of the American Chemical Society, 2021, 143, 17431-17440.	6.6	31
30	Surface-Bound Norbornylogous Bridges as Molecular Rulers for Investigating Interfacial Electrochemistry and as Single Molecule Switches. Accounts of Chemical Research, 2014, 47, 385-395.	7.6	30
31	Spontaneous S–Si bonding of alkanethiols to Si(111)–H: towards Si–molecule–Si circuits. Chemical Science, 2020, 11, 5246-5256.	3.7	30
32	Reversible potential-induced structural changes of alkanethiol monolayers on gold surfaces. Electrochemistry Communications, 2011, 13, 387-390.	2.3	29
33	Tuning the electrical conductance of metalloporphyrin supramolecular wires. Scientific Reports, 2016, 6, 37352.	1.6	27
34	The Effect of Interfacial Design on the Electrochemical Detection of DNA and MicroRNA Using Methylene Blue at Lowâ€Đensity DNA Films. ChemElectroChem, 2014, 1, 165-171.	1.7	26
35	Spatiotemporal Control of Electrochemiluminescence Guided by a Visible Light Stimulus. Cell Reports Physical Science, 2020, 1, 100107.	2.8	26
36	Nanocrystal Inks: Photoelectrochemical Printing of Cu <sub>2</sub> O Nanocrystals on Silicon with 2D Control on Polyhedral Shapes. Advanced Functional Materials, 2018, 28, 1804791.	7.8	24

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#	Article	IF	CITATIONS
37	Investigation of the Antifouling Properties of Phenyl Phosphorylcholineâ€Based Modified Gold Surfaces. Electroanalysis, 2014, 26, 1471-1480.	1.5	23
38	Impermeable Graphene Oxide Protects Silicon from Oxidation. ACS Applied Materials & Interfaces, 2021, 13, 38799-38807.	4.0	23
39	Covalent Linkages of Molecules and Proteins to Si–H Surfaces Formed by Disulfide Reduction. Langmuir, 2020, 36, 14999-15009.	1.6	22
40	Vortex fluidic mediated transformation of graphite into highly conducting graphene scrolls. Nanoscale Advances, 2019, 1, 2495-2501.	2.2	21
41	Reduced graphene oxide–silicon interface involving direct Si–O bonding as a conductive and mechanical stable ohmic contact. Chemical Communications, 2020, 56, 6209-6212.	2.2	21
42	Building Nanoscale Molecular Wires Exploiting Electrocatalytic Interactions. Electrochimica Acta, 2015, 179, 611-617.	2.6	19
43	Oxidative acetylenic coupling reactions as a surface chemistry tool. Physical Chemistry Chemical Physics, 2011, 13, 15624.	1.3	16
44	Redox-Active Monolayers in Mesoporous Silicon. Journal of Physical Chemistry C, 2012, 116, 16080-16088.	1.5	16
45	Hydrogen evolution during the electrodeposition of gold nanoparticles at Si(100) photoelectrodes impairs the analysis of current-time transients. Electrochimica Acta, 2017, 247, 200-206.	2.6	16
46	Single-Electrode Electrochemistry: Chemically Engineering Surface Adhesion and Hardness To Maximize Redox Work Extracted from Tribocharged Silicon. ACS Applied Nano Materials, 2019, 2, 7230-7236.	2.4	16
47	Electroactive Selfâ€Assembled Monolayers of Unique Geometric Structures by Using Rigid Norbornylogous Bridges. Chemistry - A European Journal, 2012, 18, 283-292.	1.7	15
48	Ultrasonic Generation of Thiyl Radicals: A General Method of Rapidly Connecting Molecules to a Range of Electrodes for Electrochemical and Molecular Electronics Applications. ACS Sensors, 2021, 6, 573-580.	4.0	15
49	Common Background Signals in Voltammograms of Crystalline Silicon Electrodes are Reversible Silica–Silicon Redox Chemistry at Highly Conductive Surface Sites. Journal of the American Chemical Society, 2021, 143, 1267-1272.	6.6	15
50	Sliding silicon-based Schottky diodes: Maximizing triboelectricity with surface chemistry. Nano Energy, 2022, 93, 106861.	8.2	15
51	The Influence of Organicâ€Film Morphology on the Efficient Electron Transfer at Passivated Polymerâ€Modified Electrodes to which Nanoparticles are Attached. ChemPhysChem, 2013, 14, 2190-2197.	1.0	14
52	Switchable Interfaces: Redox Monolayers on Si(100) by Electrochemical Trapping of Alcohol Nucleophiles. Surfaces, 2018, 1, 3-11.	1.0	14
53	Spontaneous Grafting of OH-Terminated Molecules on Siâ	1.0	13
54	Nanoscale Silicon Oxide Reduces Electron Transfer Kinetics of Surface-Bound Ferrocene Monolayers on Silicon. Journal of Physical Chemistry C, 2021, 125, 27763-27770.	1.5	12

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55	Absence of a Relationship between Surface Conductivity and Electrochemical Rates: Redox-Active Monolayers on Si(211), Si(111), and Si(110). Journal of Physical Chemistry C, 2021, 125, 18197-18203.	1.5	11
56	Nucleic-acid recognition interfaces: how the greater ability of RNA duplexes to bend towards the surface influences electrochemical sensor performance. Chemical Communications, 2015, 51, 16526-16529.	2.2	10
57	Irreproducibility in the triboelectric charging of insulators: evidence of a non-monotonic charge versus contact time relationship. Physical Chemistry Chemical Physics, 2020, 22, 11671-11677.	1.3	10
58	Memristor Arrays Formed by Reversible Formation and Breakdown of Nanoscale Silica Layers on Si–H Surfaces. ACS Applied Nano Materials, 2022, 5, 6609-6617.	2.4	10
59	Static Electrification of Plastics under Friction: The Position of Engineeringâ€Grade Polyethylene Terephthalate in the Triboelectric Series. Advanced Engineering Materials, 2020, 22, 1901201.	1.6	9
60	Electrochemically fabricated molecule–electrode contacts for molecular electronics. Current Opinion in Electrochemistry, 2022, 34, 101019.	2.5	9
61	Silicon â^ single molecule â^ silicon circuits. Chemical Science, 2021, 12, 15870-15881.	3.7	7
62	Effect of Electric Fields on Silicon-Based Monolayers. Langmuir, 2022, 38, 2986-2992.	1.6	7
63	On-Surface Azide–Alkyne Cycloaddition Reaction: Does It Click with Ruthenium Catalysts?. Langmuir, 2022, 38, 5532-5541.	1.6	7
64	Continuous flow fabrication of green graphene oxide in aqueous hydrogen peroxide. Nanoscale Advances, 2022, 4, 3121-3130.	2.2	7
65	Ultra-Small Fatty Acid-Stabilized Magnetite Nanocolloids Synthesized by <i>In Situ</i> Hydrolytic Precipitation. Journal of Nanomaterials, 2015, 2015, 1-11.	1.5	6
66	High shear <i>in situ</i> exfoliation of 2D gallium oxide sheets from centrifugally derived thin films of liquid gallium. Nanoscale Advances, 2021, 3, 5785-5792.	2.2	6
67	Decoloration rates of a photomerocyanine dye as a visual probe into hydrogen bonding interactions. Chemical Communications, 2015, 51, 4815-4818.	2.2	5
68	Chemical mechanisms, one molecule at a time. Nature Nanotechnology, 2021, 16, 1176-1177.	15.6	4
69	Electrochemical Detection of Dinitrobenzene on Silicon Electrodes: Toward Explosives Sensors. Surfaces, 2022, 5, 218-227.	1.0	4
70	Thickness-Dependent Seebeck Coefficient in Hybrid 2-Dimensional layers. , 2021, , .		3
71	Electro-polymerization rates of diazonium salts are dependent on the crystal orientation of the surface. Journal of Colloid and Interface Science, 2022, 626, 985-994.	5.0	3
72	Non-Ideal Cyclic Voltammetry of Redox Monolayers on Silicon Electrodes: Peak Splitting is Caused by Heterogeneous Photocurrents and Not by Molecular Disorder. Langmuir, 2022, 38, 743-750.	1.6	1

#	Article	IF	CITATIONS
73	Spontaneous Formation of Diazonium Salts Thin Films on Silicon Electrodes. ECS Meeting Abstracts, 2019, , .	0.0	0