

# David Cornil

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

970  
citations

471509

17  
h-index

454955

30  
g-index

41  
all docs

41  
docs citations

41  
times ranked

1559  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancement of oxygen evolution reaction by X-doped (X= Se, S, P) holey graphitic carbon shell encapsulating NiCoFe nanoparticles: a combined experimental and theoretical study. <i>Materials Today Chemistry</i> , 2022, 23, 100706.	3.5	4
2	Prominent Electrode Material for Na-, K-, and Mg-ion Batteries: 2D $\text{In}_2\text{Sb}$ Monolayer. <i>Energy &amp; Fuels</i> , 2022, 36, 7087-7095.	5.1	16
3	Insights into the growth of nanoparticles in liquid polyol by thermal annealing. <i>Nanoscale Advances</i> , 2021, 3, 4780-4789.	4.6	4
4	Tuning the Electronic Bandgap of Graphdiyne by Hg Substitution to Promote Interfacial Charge Carrier Separation for Enhanced Photocatalytic Hydrogen Production. <i>Advanced Functional Materials</i> , 2021, 31, 2100994.	14.9	41
5	Magnetron sputter deposition of silver onto castor oil: The effect of plasma parameters on nanoparticle properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 615, 126286.	4.7	10
6	Reducing p-type Schottky contact barrier in metal/ZnO heterostructure through Ni-doping. <i>Applied Surface Science</i> , 2021, 545, 149023.	6.1	12
7	Challenges for Incorporating Optical Switchability in Organic-Based Electronic Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 27737-27748.	8.0	17
8	Photocatalysis: Tuning the Electronic Bandgap of Graphdiyne by Hg Substitution to Promote Interfacial Charge Carrier Separation for Enhanced Photocatalytic Hydrogen Production ( <i>Adv. Funct. Mater.</i> )	14.0	10
9	Insights on the Formation of Nanoparticles Prepared by Magnetron Sputtering Onto Liquids: Gold Sputtered Onto Castor Oil as a Case Study. <i>Frontiers in Nanotechnology</i> , 2021, 3, .	4.8	10
10	Switching the electrical characteristics of TiO <sub>2</sub> from n-type to p-type by ion implantation. <i>Applied Surface Science</i> , 2021, 563, 150274.	6.1	6
11	The role of selenium vacancies in the enhancement of electrocatalytic activity of CoNiSe <sub>2</sub> for the oxygen evolution reaction. <i>Journal of Power Sources</i> , 2021, 514, 230596.	7.8	39
12	Fine Control of the Chemistry of Nitrogen Doping in TiO <sub>2</sub> : A Joint Experimental and Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2020, 124, 17401-17412.	3.1	17
13	Enhanced Adhesion Energy at Oxide/Ag Interfaces for Low-Emissivity Glasses: Theoretical Insight into Doping and Vacancy Effects. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 40838-40849.	8.0	5
14	Theoretical characterization of the electronic properties of heterogeneous vertical stacks of 2D metal dichalcogenides containing one doped layer. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 14088-14098.	2.8	5
15	Tuning Spin Current Injection at Ferromagnet-Nonmagnet Interfaces by Molecular Design. <i>Physical Review Letters</i> , 2020, 124, 027204.	7.8	19
16	Co-sputtering of gold and copper onto liquids: a route towards the production of porous gold nanoparticles. <i>Nanotechnology</i> , 2020, 31, 455303.	2.6	11
17	Glass Hardness Modification by Means of Ion Implantation: Electronic Doping versus Surface Composition Effect. <i>Advanced Theory and Simulations</i> , 2019, 2, 1900039.	2.8	4
18	Graphene Meets Ionic Liquids: Fermi Level Engineering via Electrostatic Forces. <i>ACS Nano</i> , 2019, 13, 3512-3521.	14.6	22

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19	Switching the Electronic Properties of ZnO Surfaces with Negative $\pi$ -Type Photochromic Pyridyl $\pi$ -dihydropyrene Layers and Impact of Fermi Level Pinning. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900211.	3.7	13
20	Effect of the Molecular Polarizability of SAMs on the Work Function Modification of Gold: Closed $\pi$ - versus Open $\pi$ -Shell Donor $\pi$ -Acceptor SAMs. <i>Advanced Materials Technologies</i> , 2019, 4, 1800152.	5.8	13
21	Energy Level Alignment at Interfaces Between Au (111) and Thiolated Oligophenylenes of Increasing Chain Size: Theoretical Evidence of Pinning Effects. <i>Advanced Theory and Simulations</i> , 2018, 1, 1700020.	2.8	13
22	On the Sputtering of Titanium and Silver onto Liquids, Discussing the Formation of Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2018, 122, 26605-26612.	3.1	17
23	Dynamic Photoswitching of Electron Energy Levels at Hybrid ZnO/Organic Photochromic Molecule Junctions. <i>Advanced Functional Materials</i> , 2018, 28, 1800716.	14.9	26
24	Which Oxide for Low-Emissivity Glasses? First-Principles Modeling of Silver Adhesion. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 18346-18354.	8.0	10
25	Hierarchical self-assembly of enantiopure and racemic helicenes at the liquid/solid interface: from 2D to 3D. <i>Nanoscale</i> , 2017, 9, 18075-18080.	5.6	11
26	Influence of the nature of the anchoring group on electron injection processes at dye $\pi$ -titania interfaces. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 29389-29401.	2.8	18
27	Probing the interaction between 2,2'-bithiophene-5-carboxylic acid and TiO <sub>2</sub> by photoelectron spectroscopy: A joint experimental and theoretical study. <i>Journal of Chemical Physics</i> , 2017, 147, 244704.	3.0	2
28	Oxygen vacancy stabilized zirconia (OVSZ); a joint experimental and theoretical study. <i>Scripta Materialia</i> , 2016, 124, 26-29.	5.2	43
29	Development of a ReaxFF potential for Ag/Zn/O and application to Ag deposition on ZnO. <i>Surface Science</i> , 2016, 645, 67-73.	1.9	35
30	Modulating the charge injection in organic field-effect transistors: fluorinated oligophenyl self-assembled monolayers for high work function electrodes. <i>Journal of Materials Chemistry C</i> , 2015, 3, 3007-3015.	5.5	62
31	Work function modification of the (111) gold surface covered by long alkanethiol-based self-assembled monolayers. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 2866.	2.8	26
32	Defect $\pi$ -Driven Interfacial Electronic Structures at an Organic/Metal $\pi$ -Oxide Semiconductor Heterojunction. <i>Advanced Materials</i> , 2014, 26, 4711-4716.	21.0	46
33	Work function shifts of a zinc oxide surface upon deposition of self-assembled monolayers: a theoretical insight. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 20887-20899.	2.8	33
34	Large Work Function Shift of Gold Induced by a Novel Perfluorinated Azobenzene $\pi$ -Based Self $\pi$ -Assembled Monolayer. <i>Advanced Materials</i> , 2013, 25, 432-436.	21.0	93
35	Work-function modification of the (111) gold surface upon deposition of self-assembled monolayers based on alkanethiol derivatives. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2013, 189, 32-38.	1.7	22
36	Self-assembly of an asymmetrically functionalized [6]helicene at liquid/solid interfaces. <i>Chemical Communications</i> , 2013, 49, 2207.	4.1	43

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37	Work Function Modification of Au and Ag Surfaces upon Deposition of Self-Assembled Monolayers: Influence of the Choice of the Theoretical Approach and the Thiol Decomposition Scheme. ChemPhysChem, 2013, 14, 2939-2946.	2.1	14
38	Photoinduced work function changes by isomerization of a densely packed azobenzene-based SAM on Au: a joint experimental and theoretical study. Physical Chemistry Chemical Physics, 2011, 13, 14302.	2.8	61
39	Noncovalent Interactions between ([18]Crown-6)-Tetracarboxylic Acid and Amino Acids: Electrospray-Ionization Mass Spectrometry Investigation of the Chiral-Recognition Processes. Chemistry - A European Journal, 2008, 14, 11039-11049.	3.3	27
40	Depolarization Effects in Self-Assembled Monolayers: A Quantum-Chemical Insight. Advanced Functional Materials, 2007, 17, 1143-1148.	14.9	97
41	On the Role of Collective Electrostatic Effects in Electronic Level Pinning and Work Function Changes by Molecular Adlayers: The Case of Partially Fluorinated DNTTs Adsorbed Flat-Lying on Various Metals and Heterostructures. Advanced Materials Interfaces, 0, , 2200361.	3.7	0