

# Priv-Dozêdr Stijn F L Mertens

## List of Publications by Year in descending order

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48  
papers

2,408  
citations

331670

21  
h-index

233421

45  
g-index

50  
all docs

50  
docs citations

50  
times ranked

3401  
citing authors

#	ARTICLE	IF	CITATIONS
1	Asymmetrical Schiff bases as inhibitors of mild steel corrosion in sulphuric acid media. <i>Materials Chemistry and Physics</i> , 2003, 78, 800-808.	4.0	433
2	Covalent Modification of Graphene and Graphite Using Diazonium Chemistry: Tunable Grafting and Nanomanipulation. <i>ACS Nano</i> , 2015, 9, 5520-5535.	14.6	274
3	Synergism and antagonism in mild steel corrosion inhibition by sodium dodecylbenzenesulphonate and hexamethylenetetramine. <i>Corrosion Science</i> , 2003, 45, 1473-1489.	6.6	250
4	Functionalization of Thioctic Acid-Capped Gold Nanoparticles for Specific Immobilization of Histidine-Tagged Proteins. <i>Journal of the American Chemical Society</i> , 2005, 127, 5689-5694.	13.7	248
5	Short-Term Deterioration of Polymer-Coated 55% Al-Zn " Part 1: Behavior of Thin Polymer Films. <i>Corrosion</i> , 1997, 53, 381-388.	1.1	140
6	2021 roadmap for sodium-ion batteries. <i>JPhys Energy</i> , 2021, 3, 031503.	5.3	125
7	Application of an asymmetric flow field flow fractionation multi-detector approach for metallic engineered nanoparticle characterization " Prospects and limitations demonstrated on Au nanoparticles. <i>Analytica Chimica Acta</i> , 2011, 706, 367-378.	5.4	85
8	Plasmon interactions between gold nanoparticles in aqueous solution with controlled spatial separation. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 1430.	2.8	65
9	From Redox Gating to Quantized Charging. <i>Journal of the American Chemical Society</i> , 2010, 132, 8187-8193.	13.7	65
10	Switching stiction and adhesion of a liquid on a solid. <i>Nature</i> , 2016, 534, 676-679.	27.8	65
11	Intrinsic Multistate Switching of Gold Clusters through Electrochemical Gating. <i>Journal of the American Chemical Society</i> , 2007, 129, 9162-9167.	13.7	61
12	Pronounced Electrochemical Amphotericity of a Fused Donor " Acceptor Compound: A Planar Merge of TTF with a TCNQ " Type Bithienoquinoxaline. <i>Chemistry - A European Journal</i> , 2009, 15, 63-66.	3.3	58
13	Au@Hg Nanoalloy Formation Through Direct Amalgamation: Structural, Spectroscopic, and Computational Evidence for Slow Nanoscale Diffusion. <i>Advanced Functional Materials</i> , 2011, 21, 3259-3267.	14.9	43
14	Surface Structure of TiO <sub>2</sub> Rutile (011) Exposed to Liquid Water. <i>Journal of Physical Chemistry C</i> , 2017, 121, 26424-26431.	3.1	37
15	Squeezing, Then Stacking: From Breathing Pores to Three " Dimensional Ionic Self " Assembly under Electrochemical Control. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12951-12954.	13.8	36
16	Multicomponent Self " Assembly with a Shape " Persistent " Heterotriangulene Macrocycle on Au(111). <i>Chemistry - A European Journal</i> , 2015, 21, 1652-1659.	3.3	33
17	Graphite and Graphene Fairy Circles: A Bottom-Up Approach for the Formation of Nanocorrals. <i>ACS Nano</i> , 2019, 13, 5559-5571.	14.6	32
18	" Ligand " Free " Cluster Quantized Charging in an Ionic Liquid. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 9735-9738.	13.8	30

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19	Stability and Catalytic Performance of Reconstructed Fe <sub>3</sub> O <sub>4</sub> (001) and Fe <sub>3</sub> O <sub>4</sub> (110) Surfaces during Oxygen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2019, 123, 8304-8311.	3.1	30
20	Diazadithia[7]helicenes: Synthetic Exploration, Solidâ€State Structure, and Properties. <i>Chemistry - A European Journal</i> , 2013, 19, 12077-12085.	3.3	23
21	Corrosion due to differential aeration reconsidered. <i>Journal of Electroanalytical Chemistry</i> , 2001, 506, 61-63.	3.8	22
22	Silver Halide Colloid Precursors for the Synthesis of Monolayer-Protected Clusters. <i>Langmuir</i> , 2004, 20, 3289-3296.	3.5	20
23	Quantised double layer charging of monolayer-protected clusters in a room temperature ionic liquid. <i>Electrochimica Acta</i> , 2009, 54, 5006-5010.	5.2	19
24	Potential-driven molecular tiling of a charged polycyclic aromatic compound. <i>Chemical Communications</i> , 2014, 50, 10376-10378.	4.1	18
25	Self-Limiting Adsorption of WO <sub>3</sub> Oligomers on Oxide Substrates in Solution. <i>Journal of Physical Chemistry C</i> , 2017, 121, 19743-19750.	3.1	18
26	Dynamics of ionic liquid mediated quantised charging of monolayer-protected clusters. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5417.	2.8	17
27	Surface or bulk? Real-time manganese dissolution detection in a lithium-ion cathode. <i>Electrochimica Acta</i> , 2021, 386, 138373.	5.2	15
28	Area-selective passivation of sp <sup>2</sup> carbon surfaces by supramolecular self-assembly. <i>Nanoscale</i> , 2017, 9, 5188-5193.	5.6	14
29	Nanoconfined self-assembly on a grafted graphitic surface under electrochemical control. <i>Nanoscale</i> , 2017, 9, 362-368.	5.6	14
30	Interfacial supramolecular electrochemistry. <i>Current Opinion in Electrochemistry</i> , 2018, 8, 156-163.	4.8	14
31	Short-Term Deterioration of Polymer-Coated 55% Al-Zn: Part 2 â€” Impedance Model for Inhibitor-Modified Surface. <i>Corrosion</i> , 1999, 55, 151-156.	1.1	12
32	Covalent versus Electrostatic Strategies for Nanoparticle Immobilisation. <i>Electroanalysis</i> , 2010, 22, 2940-2946.	2.9	12
33	Reversible Anionâ€Driven Switching of an Organic 2D Crystal at a Solidâ€Liquid Interface. <i>Small</i> , 2017, 13, 1702379.	10.0	12
34	Oneâ€Step Covalent Immobilization of Î²â€Cyclodextrin on sp <sup>2</sup> Carbon Surfaces for Selective Trace Amount Probing of Guests. <i>Advanced Functional Materials</i> , 2019, 29, 1901488.	14.9	11
35	Study of zinc passivation in chromium(VI)-containing electrolytes with short-term impedance measurements. <i>Corrosion Science</i> , 2001, 43, 301-316.	6.6	10
36	Copper underpotential deposition on boron nitride nanomesh. <i>Electrochimica Acta</i> , 2017, 246, 730-736.	5.2	9

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37	Ambient Bistable Single Dipole Switching in a Molecular Monolayer. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14049-14053.	13.8	8
38	ZusammenrÄ¼cken und Stapeln: von atmenden Poren zu dreidimensionaler ionischer Selbstorganisation unter elektrochemischer Kontrolle. <i>Angewandte Chemie</i> , 2014, 126, 13165-13168.	2.0	5
39	Reliable Computational Prediction of the Supramolecular Ordering of Complex Molecules under Electrochemical Conditions. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 5227-5243.	5.3	5
40	Study of Interfacial Film Growth with ac Measurements. <i>Journal of Colloid and Interface Science</i> , 2000, 227, 517-524.	9.4	3
41	Dimensional changes during corrosion of polymer-coated metals. <i>Corrosion Science</i> , 2001, 43, 69-84.	6.6	3
42	Immersion transients reveal potential of zero charge of nanoparticle films. <i>Electrochemistry Communications</i> , 2012, 25, 128-131.	4.7	3
43	Ambient Bistable Single Dipole Switching in a Molecular Monolayer. <i>Angewandte Chemie</i> , 2020, 132, 14153-14157.	2.0	3
44	(Invited) Wetting, Adhesion and Stiction of 2D Materials. <i>ECS Transactions</i> , 2017, 80, 23-27.	0.5	0
45	(Invited) Switchable White Graphene: Electrochemistry of the Boron Nitride Nanomesh. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	0
46	(Invited) Wetting, Adhesion and Stiction of 2D Materials. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	0
47	Metal Underpotential Deposition to Quantify Defects in 2D Materials. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	0
48	One-Step Covalent Immobilization of $\beta^2$ -Cyclodextrin on sp <sup>2</sup> Carbon Surfaces for Ultrasensitive and Selective Guest Detection. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0