

# David Alamarguy

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1252979/publications.pdf>

Version: 2024-02-01

50  
papers

521  
citations

759233

12  
h-index

752698

20  
g-index

50  
all docs

50  
docs citations

50  
times ranked

813  
citing authors

#	ARTICLE	IF	CITATIONS
1	Covalent grafting onto self-adhesive surfaces based on aryldiazonium salt seed layers. Journal of Materials Chemistry, 2008, 18, 5913.	6.7	65
2	Distributed Bragg reflectors based on diluted boron-based BAIN alloys for deep ultraviolet optoelectronic applications. Applied Physics Letters, 2012, 100, 051101.	3.3	44
3	Conductive-probe AFM characterization of graphene sheets bonded to gold surfaces. Applied Surface Science, 2012, 258, 2920-2926.	6.1	35
4	Memristive and neuromorphic behavior in a $\text{Li}_x\text{CoO}_2$ nanobattery. Scientific Reports, 2015, 5, 7761.	3.3	33
5	Atmospheric pressure route to epitaxial nitrogen-doped trilayer graphene on 4H-SiC (0001) substrate. Applied Physics Letters, 2014, 105, .	3.3	29
6	Characterization of graphene oxide reduced through chemical and biological processes. Journal of Physics: Conference Series, 2013, 433, 012001.	0.4	22
7	Direct Evidence of Lithium Ion Migration in Resistive Switching of Lithium Cobalt Oxide Nanobatteries. Small, 2018, 14, e1801038.	10.0	20
8	Correlation between the electrical and mechanical behaviours of a nanocontact with an alkanethiol monolayer. Applied Surface Science, 2004, 225, 309-317.	6.1	14
9	Electro-mechanical modelling of multilayer contacts in electrical connectors. , 2007, , .		13
10	Experimental study of the reduction of field emission by gas injection in vacuum for accelerator applications. Physical Review Special Topics: Accelerators and Beams, 2014, 17, .	1.8	13
11	Tuning the work function of monolayer graphene on 4H-SiC (0001) with nitric acid. Nanotechnology, 2015, 26, 445702.	2.6	13
12	Distribution of intercalated lithium in $\text{V}_2\text{O}_5$ thin films determined by SIMS depth profiling. Surface and Interface Analysis, 2006, 38, 847-850.	1.8	12
13	Low noise and fast response of infrared sensing structures based on amorphous $\text{Yb}^{\text{II}}\text{Ba}^{\text{II}}\text{Cu}^{\text{II}}\text{O}$ semiconducting thin films sputtered on silicon. Thin Solid Films, 2016, 617, 71-75.	1.8	12
14	Characterisation of sol-gel crystalline $\text{V}_2\text{O}_5$ thin films after Li intercalation cycling. Surface and Interface Analysis, 2006, 38, 801-804.	1.8	11
15	Fretting Behavior of Nickel Coatings for Electrical Contact Applications. , 2011, , .		10
16	An investigation of fretting wear behaviour of nickel coatings for electrical contacts application in dry and lubricated conditions. Wear, 2013, 301, 551-561.	3.1	10
17	$\text{Li}^+$ distribution into $\text{V}_2\text{O}_5$ films resulting from electrochemical intercalation reactions. Journal of the Brazilian Chemical Society, 2008, 19, 667-671.	0.6	9
18	Fretting behaviour of various intermetallic compounds in electrical contacts: Influence on reliability. Wear, 2011, 271, 1515-1523.	3.1	9

#	ARTICLE	IF	CITATIONS
19	Evaluation of the nanotube intrinsic resistance across the tip-carbon nanotube-metal substrate junction by Atomic Force Microscopy. <i>Nanoscale Research Letters</i> , 2011, 6, 335.	5.7	9
20	Modeling of InGaN/Si tandem cells: comparison between 2-contacts/4-contacts. <i>EPJ Photovoltaics</i> , 2017, 8, 85502.	1.6	9
21	Factors influencing charge capacity of vanadium pentoxide thin films during lithium ion intercalation/deintercalation cycles. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2007, 25, 1577-1586.	2.1	8
22	Tribological and electrical study of fluorinated diazonium films as dry lubricants for electrical contacts. <i>Surface and Interface Analysis</i> , 2008, 40, 802-805.	1.8	8
23	Friction properties of perfluorinated polyethers for hot-dipped tin low-level separable electrical contacts. <i>Journal of Synthetic Lubrication: Research, Development and Application of Synthetic Lubricants and Functional Fluids</i> , 2002, 19, 179-189.	0.7	7
24	Surface investigations of bonded perfluoro polyether monolayers on gold surfaces. <i>Surface and Interface Analysis</i> , 2004, 36, 1210-1213.	1.8	7
25	XPS and TOF-SIMS study of the distribution of Li ions in thin films of vanadium pentoxide after electrochemical intercalation. <i>Surface and Interface Analysis</i> , 2008, 40, 746-750.	1.8	7
26	Effect of Solution Concentration on ZnO/ZnAl <sub>2</sub> O <sub>4</sub> Nanocomposite Thin Films Formation Deposited by Ultrasonic Spray Pyrolysis on Glass and Si(111) Substrates. <i>Journal of Nano Research</i> , 0, 63, 10-30.	0.8	7
27	Nanocomposite thin films for surface protection in electrical contact applications. , 2007, , .		6
28	Electronic properties of embedded graphene: doped amorphous silicon/CVD graphene heterostructures. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 404001.	1.8	6
29	An ultra-thin SiO <sub>2</sub> ALD layer for void-free bonding of III-V material on silicon. <i>Microelectronic Engineering</i> , 2016, 162, 40-44.	2.4	6
30	Grafting of bifunctional fluorinated polyether molecules on metallic surfaces: application to the protection of electrical contacts. <i>Surface and Interface Analysis</i> , 2006, 38, 326-329.	1.8	5
31	Effect of fluorinated lubricants on the friction modes of tin electrical contacts submitted to fretting. <i>EPJ Applied Physics</i> , 2010, 49, 22903.	0.7	5
32	Multi-scale investigation of electronic transport and electromechanical behavior in carbon nanotube materials. <i>Composites Part B: Engineering</i> , 2011, 42, 2098-2104.	12.0	5
33	Graphene Films for Corrosion Protection of Gold Coated Cuprous Substrates in View of an Application to Electrical Contacts. , 2012, , .		5
34	Fretting behaviour of tinned connectors under grease lubrication. , 2017, , .		5
35	Imaging the defect distribution in 2D hexagonal boron nitride by tracing photogenerated electron dynamics. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 405106.	2.8	5
36	Corrosion behaviour of gold surfaces protected with bonded perfluoro polyethers. <i>Surface and Interface Analysis</i> , 2004, 36, 780-783.	1.8	4

#	ARTICLE	IF	CITATIONS
37	Nanocomposite Thin Films for Surface Protection in Electrical Contact Applications. IEEE Transactions on Components and Packaging Technologies, 2009, 32, 358-364.	1.3	4
38	Influence of ambient gas pressure and carbon adsorption on dark current emission from a cathode. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2016, 34, .	1.2	4
39	Integration of fluorographene trapping medium in MoS <sub>2</sub> -based nonvolatile memory device. Journal of Applied Physics, 2020, 127, 245106.	2.5	4
40	Multi-scale study of the electrical properties of organic layers grafted on gold surfaces. , 0, , .		3
41	Influence of Grafting Properties of Organic Thin Films for Low Level Electrical Contacts Protection. , 2008, , .		3
42	Electrical Conduction Properties of Molecular Ultrathin Layers in a Nanocontact. , 2010, , .		3
43	Multilayer contacts in electrical connectors: experimental results and modelling. WIT Transactions on Engineering Sciences, 2007, , .	0.0	3
44	A new mixed organic layer for enhanced corrosion protection of electric contacts. , 0, , .		2
45	Electrical characterization of graphene-like films at microscopic and macroscopic scale. , 2014, , .		2
46	Effect of the Al <sub>2</sub> O <sub>3</sub> Deposition Method on Parylene C: Highlights on a Nanopillar-Shaped Surface. ACS Omega, 2020, 5, 15828-15834.	3.5	2
47	New generation of Distributed Bragg Reflectors based on BAIN/AIN structures for deep UV-optoelectronic applications. , 2011, , .		1
48	Characterization of N-doped multilayer graphene grown on 4H-SiC (0001). , 2015, , .		1
49	High structural and optical quality of III-V-on-Si 1.2 nm-thick oxide-bonded hybrid interface. Microelectronic Engineering, 2018, 192, 25-29.	2.4	1
50	Study of Thin Underlayers to Hinder Contact Resistance Increase Due to Intermetallic Compound Formation. , 2009, , .		0