

# Adrianus I Aria

## List of Publications by Year in descending order

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35  
papers

951  
citations

516710

16  
h-index

454955

30  
g-index

36  
all docs

36  
docs citations

36  
times ranked

1482  
citing authors

#	ARTICLE	IF	CITATIONS
1	Piezoelectric Materials for Energy Harvesting and Sensing Applications: Roadmap for Future Smart Materials. <i>Advanced Science</i> , 2021, 8, e2100864.	11.2	259
2	Time Evolution of the Wettability of Supported Graphene under Ambient Air Exposure. <i>Journal of Physical Chemistry C</i> , 2016, 120, 2215-2224.	3.1	108
3	Physicochemical Characteristics and Droplet Impact Dynamics of Superhydrophobic Carbon Nanotube Arrays. <i>Langmuir</i> , 2014, 30, 6780-6790.	3.5	68
4	Reversible Tuning of the Wettability of Carbon Nanotube Arrays: The Effect of Ultraviolet/Ozone and Vacuum Pyrolysis Treatments. <i>Langmuir</i> , 2011, 27, 9005-9011.	3.5	54
5	Parameter Space of Atomic Layer Deposition of Ultrathin Oxides on Graphene. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 30564-30575.	8.0	47
6	Engineering high charge transfer n-doping of graphene electrodes and its application to organic electronics. <i>Nanoscale</i> , 2015, 7, 13135-13142.	5.6	43
7	Encapsulation of graphene transistors and vertical device integration by interface engineering with atomic layer deposited oxide. <i>2D Materials</i> , 2017, 4, 011008.	4.4	39
8	Self-Healing Mechanisms for 3D-Printed Polymeric Structures: From Lab to Reality. <i>Polymers</i> , 2020, 12, 1534.	4.5	36
9	Carbon nanotube-based substrates for modulation of human pluripotent stem cell fate. <i>Biomaterials</i> , 2014, 35, 5098-5109.	11.4	29
10	Fabrication of carbon nanotube/polyimide composite hollow microneedles for transdermal drug delivery. <i>Biomedical Microdevices</i> , 2014, 16, 879-886.	2.8	28
11	External amplitude and frequency modulation of a terahertz quantum cascade laser using metamaterial/graphene devices. <i>Scientific Reports</i> , 2017, 7, 7657.	3.3	27
12	Effect of dry oxidation on the energy gap and chemical composition of CVD graphene on nickel. <i>Applied Surface Science</i> , 2014, 293, 1-11.	6.1	25
13	Bolometric detection of terahertz quantum cascade laser radiation with graphene-plasmonic antenna arrays. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 174001.	2.8	22
14	Graphene-based nanolaminates as ultra-high permeation barriers. <i>Npj 2D Materials and Applications</i> , 2017, 1, .	7.9	21
15	Atomic layer deposited oxide films as protective interface layers for integrated graphene transfer. <i>Nanotechnology</i> , 2017, 28, 485201.	2.6	18
16	Chemical vapour deposition of freestanding sub-60 nm graphene gyroids. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	18
17	From Growth Surface to Device Interface: Preserving Metallic Fe under Monolayer Hexagonal Boron Nitride. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 29973-29981.	8.0	16
18	Recent Progress in Precision Machining and Surface Finishing of Tungsten Carbide Hard Composite Coatings. <i>Coatings</i> , 2020, 10, 731.	2.6	14

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19	TiO <sub>2</sub> -enhanced chitosan/cassava starch biofilms for sustainable food packaging. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 630, 127661.	4.7	12
20	Morphology engineering of hollow carbon nanotube pillars by oxygen plasma treatment. <i>Carbon</i> , 2015, 81, 376-387.	10.3	11
21	Compressive behavior and failure mechanisms of freestanding and composite 3D graphitic foams. <i>Acta Materialia</i> , 2018, 159, 187-196.	7.9	10
22	Thermal response of multi-layer UV crosslinked PEGDA hydrogels. <i>Polymer Degradation and Stability</i> , 2022, 195, 109805.	5.8	7
23	Surface finishing and residual stress improvement of chemical vapour deposited tungsten carbide hard coatings by vibratory polishing. <i>Surface and Coatings Technology</i> , 2022, 439, 128447.	4.8	7
24	Dry Oxidation and Vacuum Annealing Treatments for Tuning the Wetting Properties of Carbon Nanotube Arrays. <i>Journal of Visualized Experiments</i> , 2013, , .	0.3	5
25	Suppression of molten salt corrosion by plasma sprayed Ni3Al coatings. <i>Emergent Materials</i> , 2021, 4, 1583-1593.	5.7	5
26	Tailoring of Thermo-Mechanical Properties of Hybrid Composite-Metal Bonded Joints. <i>Polymers</i> , 2021, 13, 170.	4.5	4
27	Rapid surface finishing of chemical vapour deposited tungsten carbide hard coatings by electropolishing. <i>Surface and Coatings Technology</i> , 2021, 428, 127900.	4.8	4
28	Graphene-passivated nickel as an efficient hole-injecting electrode for large area organic semiconductor devices. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	3
29	Use of vertically-aligned carbon nanotube array to enhance the performance of electrochemical capacitors. , 2011, , .		2
30	Band Gap Opening of Graphene after UV/Ozone and Oxygen Plasma Treatments. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1284, 117.	0.1	2
31	Effect of Dry Oxidation on the Performance of Carbon Nanotube Arrays Electrochemical Capacitors. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1407, 20.	0.1	2
32	Feasibility Study of Carbon Nanotube Microneedles for Rapid Transdermal Drug Delivery. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1569, 239-244.	0.1	2
33	Effects of long-term exposure to the low-earth orbit environment on drag augmentation systems. <i>Acta Astronautica</i> , 2022, 195, 540-546.	3.2	2
34	Strain Self-Sensing Tailoring in Functionalised Carbon Nanotubes/Epoxy Nanocomposites in Response to Electrical Resistance Change Measurement. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
35	Use of Vertically Aligned Carbon Nanotubes for Electrochemical Double-Layer Capacitors. , 2017, , 445-456.		0