

Antony George

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

50
papers

1,919
citations

19
h-index

43
g-index

68
ext. papers

2,319
ext. citations

9.6
avg, IF

4.31
L-index

#	Paper	IF	Citations
50	Tuning exciton recombination rates in doped transition metal dichalcogenides. <i>Optical Materials: X</i> , 2021 , 12, 100097	1.7	0
49	1D p-n Junction Electronic and Optoelectronic Devices from Transition Metal Dichalcogenide Lateral Heterostructures Grown by One-Pot Chemical Vapor Deposition Synthesis. <i>Advanced Functional Materials</i> , 2021 , 31, 2101086	15.6	7
48	Inhibition of Lithium Dendrite Formation in Lithium Metal Batteries via Regulated Cation Transport through Ultrathin Sub-Nanometer Porous Carbon Nanomembranes. <i>Advanced Energy Materials</i> , 2021 , 11, 2100666	21.8	15
47	Energy-Level Alignment at Interfaces between Transition-Metal Dichalcogenide Monolayers and Metal Electrodes Studied with Kelvin Probe Force Microscopy. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 13551-13559	3.8	0
46	Hybrid Dielectric Metasurfaces for Enhancing Second-Harmonic Generation in Chemical Vapor Deposition Grown MoS ₂ Monolayers. <i>ACS Photonics</i> , 2021 , 8, 218-227	6.3	9
45	Giant persistent photoconductivity in monolayer MoS ₂ field-effect transistors. <i>Npj 2D Materials and Applications</i> , 2021 , 5,	8.8	13
44	Lateral Heterostructures: 1D p-n Junction Electronic and Optoelectronic Devices from Transition Metal Dichalcogenide Lateral Heterostructures Grown by One-Pot Chemical Vapor Deposition Synthesis (Adv. Funct. Mater. 27/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170198	15.6	
43	Controlling interlayer excitons in MoS layers grown by chemical vapor deposition. <i>Nature Communications</i> , 2020 , 11, 2391	17.4	36
42	Scanning-Probe-Induced Assembling of Gold Striations on Mono- and Bi-Layered MoS ₂ on SiO ₂ . <i>MRS Advances</i> , 2020 , 5, 2201-2207	0.7	0
41	Optically Triggered Control of the Charge Carrier Density in Chemically Functionalized Graphene Field Effect Transistors. <i>Chemistry - A European Journal</i> , 2020 , 26, 6473-6478	4.8	8
40	Vanishing influence of the band gap on the charge exchange of slow highly charged ions in freestanding single-layer MoS ₂ . <i>Physical Review B</i> , 2020 , 102,	3.3	8
39	High optical quality of MoS ₂ monolayers grown by chemical vapor deposition. <i>2D Materials</i> , 2020 , 7, 015011	5.9	40
38	Scalable Functionalization of Optical Fibers Using Atomically Thin Semiconductors. <i>Advanced Materials</i> , 2020 , 32, e2003826	24	11
37	Tunable friction of monolayer MoS ₂ by control of interfacial chemistry. <i>Extreme Mechanics Letters</i> , 2020 , 41, 100996	3.9	3
36	Integrated Photonics: Scalable Functionalization of Optical Fibers Using Atomically Thin Semiconductors (Adv. Mater. 47/2020). <i>Advanced Materials</i> , 2020 , 32, 2070354	24	
35	Facile Resist-Free Nanopatterning of Monolayers of MoS ₂ by Focused Ion-Beam Milling. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000858	4.6	4
34	Synergy of Photoinduced Force Microscopy and Tip-Enhanced Raman Spectroscopy: A Correlative Study on MoS ₂ . <i>ACS Photonics</i> , 2019 , 6, 1191-1198	6.3	8

33	Tailoring Photoluminescence from MoS ₂ Monolayers by Mie-Resonant Metasurfaces. <i>ACS Photonics</i> , 2019 , 6, 1002-1009	6.3	44
32	Controlled growth of transition metal dichalcogenide monolayers using Knudsen-type effusion cells for the precursors. <i>JPhys Materials</i> , 2019 , 2, 016001	4.2	25
31	Controlling second-harmonic diffraction by nano-patterning MoS monolayers. <i>Optics Express</i> , 2019 , 27, 35475-35484	3.3	13
30	Lateral heterostructures of two-dimensional materials by electron-beam induced stitching. <i>Carbon</i> , 2018 , 128, 106-116	10.4	17
29	2D material integrated macroporous electrodes for Li-ion batteries. <i>RSC Advances</i> , 2017 , 7, 32737-32742	3.7	7
28	Surface functionalization of two-dimensional metal chalcogenides by Lewis acid-base chemistry. <i>Nature Nanotechnology</i> , 2016 , 11, 465-71	28.7	150
27	Enabling Ultrasensitive Photo-detection Through Control of Interface Properties in Molybdenum Disulfide Atomic Layers. <i>Scientific Reports</i> , 2016 , 6, 39465	4.9	2
26	Low-Cost, Large-Area, Facile, and Rapid Fabrication of Aligned ZnO Nanowire Device Arrays. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 13466-71	9.5	37
25	Nanoantenna-Enhanced Light-Matter Interaction in Atomically Thin WS ₂ . <i>ACS Photonics</i> , 2015 , 2, 1260-1265	26.5	92
24	Scalable Transfer of Suspended Two-Dimensional Single Crystals. <i>Nano Letters</i> , 2015 , 15, 5089-97	11.5	33
23	An Atomically Layered InSe Avalanche Photodetector. <i>Nano Letters</i> , 2015 , 15, 3048-55	11.5	201
22	Optoelectronic memory using two-dimensional materials. <i>Nano Letters</i> , 2015 , 15, 259-65	11.5	128
21	Chemical Vapor Deposition of Monolayer Rhenium Disulfide (ReS ₂). <i>Advanced Materials</i> , 2015 , 27, 4640-84	8.4	177
20	Tailoring the physical properties of molybdenum disulfide monolayers by control of interfacial chemistry. <i>Nano Letters</i> , 2014 , 14, 1354-61	11.5	110
19	Evolution of the electronic band structure and efficient photo-detection in atomic layers of InSe. <i>ACS Nano</i> , 2014 , 8, 1263-72	16.7	436
18	Patterning of Epitaxial Perovskites from Micro and Nano Molded Stencil Masks. <i>Advanced Functional Materials</i> , 2014 , 24, 6853-6861	15.6	4
17	Ternary CuIn ₇ Se ₁₁ : towards ultra-thin layered photodetectors and photovoltaic devices. <i>Advanced Materials</i> , 2014 , 26, 7666-72	24	37
16	Nanostructured TiO ₂ Anatase Micropatterned Three-Dimensional Electrodes for High-Performance Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 19809-19815	3.8	33

15	Large area resist-free soft lithographic patterning of graphene. <i>Small</i> , 2013 , 9, 711-5	11	27
14	Micro and nanopatterning of functional materials on flexible plastic substrates via site-selective surface modification using oxygen plasma. <i>Journal of Materials Chemistry</i> , 2012 , 22, 328-332		10
13	Nanoscale patterning of organosilane molecular thin films from the gas phase and its applications: fabrication of multifunctional surfaces and large area molecular templates for site-selective material deposition. <i>Langmuir</i> , 2012 , 28, 3045-52	4	24
12	Concentration dependence on the shape and size of sol-gel-derived yttria-stabilized zirconia ceramic features by soft lithographic patterning. <i>Langmuir</i> , 2012 , 28, 15111-7	4	11
11	Electrodeposition of micropatterned Ni Pt multilayers and segmented Ni Pt Ni nanowires. <i>Electrochimica Acta</i> , 2012 , 81, 123-128	6.7	4
10	Imaging ultra thin layers with helium ion microscopy: Utilizing the channeling contrast mechanism. <i>Beilstein Journal of Nanotechnology</i> , 2012 , 3, 507-12	3	31
9	Sub-50 nm patterning of functional oxides by soft lithographic edge printing. <i>Journal of Materials Chemistry</i> , 2012 , 22, 9501		7
8	Exploiting channeling in Helium Ion Microscopy. <i>Microscopy and Microanalysis</i> , 2012 , 18, 806-807	0.5	
7	Nanopatterning of functional materials by gas phase pattern deposition of self-assembled molecular thin films in combination with electrodeposition. <i>Langmuir</i> , 2011 , 27, 12760-8	4	8
6	Patterning functional materials using channel diffused plasma-etched self-assembled monolayer templates. <i>Langmuir</i> , 2011 , 27, 12235-42	4	13
5	Electrodeposition in capillaries: bottom-up micro- and nanopatterning of functional materials on conductive substrates. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 3666-72	9.5	5
4	Microstructure and field emission characteristics of ZnO nanoneedles grown by physical vapor deposition. <i>Materials Chemistry and Physics</i> , 2010 , 123, 634-638	4.4	32
3	Nanopatterning from the gas phase: high resolution soft lithographic patterning of organosilane thin films. <i>Langmuir</i> , 2009 , 25, 13298-301	4	17
2	2D van der Waals Heterojunction of Organic and Inorganic Monolayers for High Responsivity Phototransistors. <i>Advanced Functional Materials</i> , 2105444	15.6	8
1	All-optical polarization and amplitude modulation of second-harmonic generation in atomically thin semiconductors. <i>Nature Photonics</i> ,	33.9	12