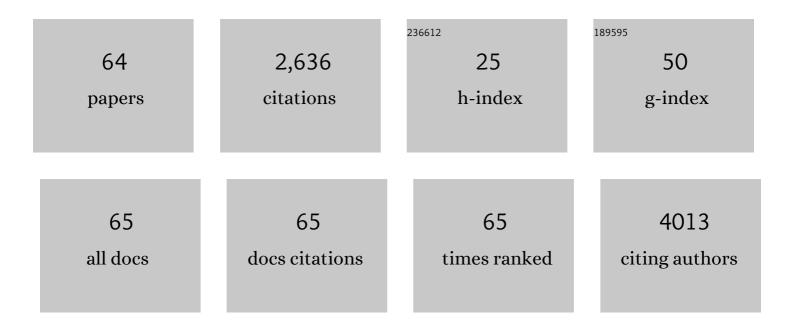


## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7294371/publications.pdf Version: 2024-02-01



RIN VII

#	Article	IF	CITATIONS
1	Contacts between Two- and Three-Dimensional Materials: Ohmic, Schottky, and <i>p</i> – <i>n</i> Heterojunctions. ACS Nano, 2016, 10, 4895-4919.	7.3	308
2	A self-powered high-performance graphene/silicon ultraviolet photodetector with ultra-shallow junction: breaking the limit of silicon?. Npj 2D Materials and Applications, 2017, 1, .	3.9	211
3	2D Heterostructures for Ubiquitous Electronics and Optoelectronics: Principles, Opportunities, and Challenges. Chemical Reviews, 2022, 122, 6514-6613.	23.0	187
4	Unified Physical Model of Bipolar Oxide-Based Resistive Switching Memory. IEEE Electron Device Letters, 2009, 30, 1326-1328.	2.2	167
5	Gd-doping effect on performance of HfO2 based resistive switching memory devices using implantation approach. Applied Physics Letters, 2011, 98, .	1.5	165
6	lonic doping effect in ZrO2 resistive switching memory. Applied Physics Letters, 2010, 96, .	1.5	154
7	Ab initio study of electronic and optical behavior of two-dimensional silicon carbide. Journal of Materials Chemistry C, 2013, 1, 2131.	2.7	148
8	A Broadband Fluorographene Photodetector. Advanced Materials, 2017, 29, 1700463.	11.1	110
9	Two-dimensional layered semiconductor/graphene heterostructures for solar photovoltaic applications. Nanoscale, 2014, 6, 12682-12689.	2.8	105
10	One-Dimensional Phase-Change Nanostructure:  Germanium Telluride Nanowire. Journal of Physical Chemistry C, 2007, 111, 2421-2425.	1.5	95
11	In-plane and tunneling pressure sensors based on graphene/hexagonal boron nitride heterostructures. Applied Physics Letters, 2011, 99, .	1.5	74
12	Graphene charge-injection photodetectors. Nature Electronics, 2022, 5, 281-288.	13.1	70
13	Modeling of Retention Failure Behavior in Bipolar Oxide-Based Resistive Switching Memory. IEEE Electron Device Letters, 2011, 32, 276-278.	2.2	61
14	Monolayer graphene/hexagonal boron nitride heterostructure. Carbon, 2013, 54, 396-402.	5.4	60
15	Designing an Efficient Multimode Environmental Sensor Based on Graphene–Silicon Heterojunction. Advanced Materials Technologies, 2017, 2, 1600262.	3.0	55
16	Solventâ€Based Softâ€Patterning of Graphene Lateral Heterostructures for Broadband High‧peed Metal–Semiconductor–Metal Photodetectors. Advanced Materials Technologies, 2017, 2, 1600241.	3.0	53
17	Chalcogenide-Nanowire-Based Phase Change Memory. IEEE Nanotechnology Magazine, 2008, 7, 496-502.	1.1	49
18	Electromechanical robustness of monolayer graphene with extreme bending. Applied Physics Letters, 2010, 97, 223102.	1.5	48

Βιν Υυ

#	Article	IF	CITATIONS
19	Ultra-Sensitive Strain Sensor Based on Flexible Poly(vinylidene fluoride) Piezoelectric Film. Nanoscale Research Letters, 2018, 13, 83.	3.1	42
20	Graphene interconnects fully encapsulated in layered insulator hexagonal boron nitride. Nanotechnology, 2013, 24, 355202.	1.3	33
21	Ultra-sensitive near-infrared graphene photodetectors with nanopillar antennas. Nanoscale, 2017, 9, 17459-17464.	2.8	33
22	Bilayer Graphene System: Current-Induced Reliability Limit. IEEE Electron Device Letters, 2010, 31, 1155-1157.	2.2	31
23	A physical model for bipolar oxide-based resistive switching memory based on ion-transport-recombination effect. Applied Physics Letters, 2011, 98, .	1.5	31
24	Scaling Analysis of Nanowire Phase-Change Memory. IEEE Electron Device Letters, 2011, 32, 1340-1342.	2.2	31
25	Graphene-Based Interconnects on Hexagonal Boron Nitride Substrate. IEEE Electron Device Letters, 2012, 33, 925-927.	2.2	31
26	High-performance, flexible graphene/ultra-thin silicon ultra-violet image sensor. , 2017, , .		28
27	Bilayer Graphene/Copper Hybrid On-Chip Interconnect: A Reliability Study. IEEE Nanotechnology Magazine, 2011, 10, 710-714.	1.1	26
28	Unraveling the origin of ferroelectric resistance switching through the interfacial engineering of layered ferroelectric-metal junctions. Nature Communications, 2021, 12, 7291.	5.8	26
29	Approaching the Collection Limit in Hot Electron Transistors with Ambipolar Hot Carrier Transport. ACS Nano, 2019, 13, 14191-14197.	7.3	21
30	Ab initio study of energy-band modulation in graphene-based two-dimensional layered superlattices. Journal of Materials Chemistry, 2012, 22, 23821.	6.7	18
31	Reversible phase-change behavior in two-dimensional antimony telluride (Sb2Te3) nanosheets. Applied Physics Letters, 2018, 112, 133101.	1.5	17
32	New Diode-Triggered Silicon-Controlled Rectifier for Robust Electrostatic Discharge Protection at High Temperatures. IEEE Transactions on Electron Devices, 2019, 66, 2044-2048.	1.6	14
33	A Hybrid Phototransistor Neuromorphic Synapse. IEEE Journal of the Electron Devices Society, 2019, 7, 13-17.	1.2	14
34	Layered insulator hexagonal boron nitride for surface passivation in quantum dot solar cell. Applied Physics Letters, 2013, 103, .	1.5	13
35	Scalable synthesis of two-dimensional antimony telluride nanoplates down to a single quintuple layer. RSC Advances, 2015, 5, 59320-59325.	1.7	12
36	Logic Inverter Implemented with CVD-Assembled Graphene FET on Hexagonal Boron Nitride. IEEE Nanotechnology Magazine, 2012, 11, 619-623.	1.1	10

Βιν Υυ

#	Article	IF	CITATIONS
37	Formation of Graphene p-n Junction via Complementary Doping. IEEE Electron Device Letters, 2011, 32, 1050-1052.	2.2	9
38	Carbon-based interconnect: Performance, scaling and reliability of 3D stacked multilayer graphene system. , 2011, , .		9
39	Extenuated interlayer scattering in double-layered graphene/hexagonal boron nitride heterostructure. Carbon, 2018, 126, 17-22.	5.4	8
40	Electrical Conduction and Reliability in Dual-Layered Graphene Heterostructure Interconnects. IEEE Electron Device Letters, 2014, 35, 1311-1313.	2.2	7
41	Electronic transport anisotropy of buckling graphene under uniaxial compressive strain: <i>Ab initio</i> study. Applied Physics Letters, 2012, 100, .	1.5	6
42	Macroscopic-Assembled-Graphene Nanofilms/Germanium Broadband Photodetectors. , 2021, , .		6
43	Multilayer Graphene Oxide/Cadmium Selenide Quantum-Dot-Coated Titanium Dioxide Heterojunction Solar Cell. IEEE Electron Device Letters, 2012, 33, 1165-1167.	2.2	5
44	Optimization of Bosch etch process for vertically stacked Si nanowires. Journal of Materials Science: Materials in Electronics, 2012, 23, 334-342.	1.1	4
45	Repeatable growth of graphene from "no―precursor. Carbon, 2017, 123, 628-634.	5.4	4
46	Reliability study of bilayer graphene - material for future transistor and interconnect. , 2010, , .		3
47	Investigation of electrically induced migration of copper on graphene surfaces: Theory and experiments. Applied Physics Letters, 2013, 103, 073104.	1.5	3
48	Rapid optical determination of topological insulator nanoplate thickness and oxidation. AIP Advances, 2017, 7, .	0.6	3
49	Two-dimensional ferroelectricity and antiferroelectricity for next-generation computing paradigms. Matter, 2022, 5, 1999-2014.	5.0	3
50	Quantum and thermo-mechanical noise squeezing in nanoresonators: A comparative study. Applied Physics Letters, 2012, 100, .	1.5	2
51	Substrate effect on graphene-based interconnects. , 2012, , .		2
52	Unipolar Switching Behavior in Highly Crystalline Hexagonal Boron Nitride. Materials Research Society Symposia Proceedings, 2014, 1658, 1.	0.1	2
53	Photodetectors: Solventâ€Based Softâ€Patterning of Graphene Lateral Heterostructures for Broadband Highâ€Speed Metal–Semiconductor–Metal Photodetectors (Adv. Mater. Technol. 2/2017). Advanced Materials Technologies, 2017, 2, .	3.0	2
54	Graphene/Cu (111) interface study: The density functional theory calculations. , 2011, , .		1

Вім Үи

#	Article	IF	CITATIONS
55	Multilayer Graphene-Based Carbon Interconnect. Materials Research Society Symposia Proceedings, 2012, 1407, 7.	0.1	1
56	Graphene nanoelectronics: Overview from post-silicon perspective. , 2012, , .		1
57	MoS <inf>2</inf> / TiO <inf>2</inf> nanoparticle composite bulk heterojunction solar cell. , 2012, , .		1
58	A theoretical study of fluorographene as substrates for mono-/Bi-layer graphene. , 2013, , .		1
59	Photodetectors: A Broadband Fluorographene Photodetector (Adv. Mater. 22/2017). Advanced Materials, 2017, 29, .	11.1	1
60	Ultra-Broad and Angle-Sensitive Terahertz Absorber. , 2019, , .		1
61	The tunable bandgap of AB-stacking bilayer graphene under the applied electric fields for power devices. , 2011, , .		0
62	CVD-Graphene Complementary Logic on Ultra-thin Multilayer Hexagonal Boron Nitride. Materials Research Society Symposia Proceedings, 2012, 1407, 151.	0.1	0
63	Effect of substrate on graphene-based interconnects. , 2012, , .		0
64	Encapsulation of graphene interconnects with 2D Layered Insulator for improved performance.	0.1	0

Materials Research Society Symposia Proceedings, 2014, 1658, 47.