

Marius Vasile Costache

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1164508/publications.pdf>

Version: 2024-02-01

37
papers

4,350
citations

257429

24
h-index

395678

33
g-index

39
all docs

39
docs citations

39
times ranked

5412
citing authors

#	ARTICLE	IF	CITATIONS
1	Heat dissipation in few-layer MoS ₂ and MoS ₂ /hBN heterostructure. 2D Materials, 2022, 9, 015005.	4.4	6
2	Resolving spin currents and spin densities generated by charge-spin interconversion in systems with reduced crystal symmetry. 2D Materials, 2022, 9, 035014.	4.4	9
3	Spin-orbit torques in topological insulator / two-dimensional ferromagnet heterostructures. , 2021, , .		0
4	Control of spin-charge conversion in van der Waals heterostructures. APL Materials, 2021, 9, .	5.1	20
5	Tunable room-temperature spin galvanic and spin Hall effects in van der Waals heterostructures. Nature Materials, 2020, 19, 170-175.	27.5	127
6	Control of Spin-Orbit Torques by Interface Engineering in Topological Insulator Heterostructures. Nano Letters, 2020, 20, 5893-5899.	9.1	46
7	The 2021 quantum materials roadmap. JPhys Materials, 2020, 3, 042006.	4.2	111
8	Ferromagnetic Resonance Assisted Optomechanical Magnetometer. Physical Review Letters, 2020, 125, 147201.	7.8	23
9	Spin-orbit phenomena in proximitized graphene. , 2020, , .		0
10	Spin communication over 30 μm long channels of chemical vapor deposited graphene on SiO ₂ . 2D Materials, 2019, 6, 034003.	4.4	36
11	Investigating the spin-orbit interaction in van der Waals heterostructures by means of the spin relaxation anisotropy. APL Materials, 2019, 7, .	5.1	7
12	Impact of the <i>in situ</i> rise in hydrogen partial pressure on graphene shape evolution during CVD growth of graphene. RSC Advances, 2018, 8, 8234-8239.	3.6	7
13	Bottom-up synthesis of multifunctional nanoporous graphene. Science, 2018, 360, 199-203.	12.6	429
14	Thermoelectric spin voltage in graphene. Nature Nanotechnology, 2018, 13, 107-111.	31.5	72
15	Strongly anisotropic spin relaxation in graphene-transition metal dichalcogenide heterostructures at room temperature. Nature Physics, 2018, 14, 303-308.	16.7	193
16	Spin precession in anisotropic media. Physical Review B, 2017, 95, .	3.2	46
17	Spin precession and spin Hall effect in monolayer graphene/Pt nanostructures. 2D Materials, 2017, 4, 041008.	4.4	36
18	Determination of the spin-lifetime anisotropy in graphene using oblique spin precession. Nature Communications, 2016, 7, 11444.	12.8	76

#	ARTICLE	IF	CITATIONS
19	Hot-Carrier Seebeck Effect: Diffusion and Remote Detection of Hot Carriers in Graphene. Nano Letters, 2015, 15, 4000-4005.	9.1	31
20	Fingerprints of Inelastic Transport at the Surface of the Topological Insulator $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Bi} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle^2 \langle \text{mml:mn} \rangle \langle \text{mml:mn} \rangle \langle \text{mml:mn} \rangle$ Role of Electron-Phonon Coupling. Physical Review Letters, 2014, 112, .	7.8	56
21	Enhanced spin accumulation at room temperature in graphene spin valves with amorphous carbon interfacial layers. Applied Physics Letters, 2013, 103, .	3.3	30
22	Electrical Detection of Spin Precession in Freely Suspended Graphene Spin Valves on Cross-Linked Poly(methyl methacrylate). Small, 2013, 9, 156-160.	10.0	39
23	Magnon-drag thermopile. , 2012, , .		0
24	Lateral metallic devices made by a multiangle shadow evaporation technique. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2012, 30, .	1.2	24
25	Magnon-drag thermopile. Nature Materials, 2012, 11, 199-202.	27.5	82
26	Generation of pure spin currents in a single electron transistor with a superconducting island. Proceedings of SPIE, 2011, , .	0.8	0
27	Perpendicular switching of a single ferromagnetic layer induced by in-plane current injection. Nature, 2011, 476, 189-193.	27.8	2,268
28	Enhanced spin signal in nonlocal devices based on a ferromagnetic CoFeAl alloy. Applied Physics Letters, 2011, 99, 102107.	3.3	33
29	Experimental Spin Ratchet. Science, 2010, 330, 1645-1648.	12.6	52
30	All magnesium diboride Josephson junctions with MgO and native oxide barriers. Applied Physics Letters, 2010, 96, .	3.3	15
31	Electrical detection of spin pumping: dc voltage generated by ferromagnetic resonance at ferromagnet/nonmagnet contact. Physical Review B, 2008, 78, .	3.2	28
32	Spin accumulation probed in multiterminal lateral all-metallic devices. Physical Review B, 2006, 74, .	3.2	16
33	Large cone angle magnetization precession of an individual nanopatterned ferromagnet with dc electrical detection. Applied Physics Letters, 2006, 89, 232115.	3.3	70
34	Microwave spectroscopy on magnetization reversal dynamics of nanomagnets with electronic detection. Journal of Applied Physics, 2006, 100, 024316.	2.5	25
35	On-chip detection of ferromagnetic resonance of a single submicron Permalloy strip. Applied Physics Letters, 2006, 89, 192506.	3.3	28
36	Electrical Detection of Spin Pumping due to the Precessing Magnetization of a Single Ferromagnet. Physical Review Letters, 2006, 97, 216603.	7.8	262

#	ARTICLE	IF	CITATIONS
37	Electrical detection of spin accumulation and spin precession at room temperature in metallic spin valves. Applied Physics Letters, 2002, 81, 5162-5164.	3.3	42