Gui-Chao Hu

List of Publications by Year in descending order

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535685 651938 74 877 17 25 h-index citations g-index papers 74 74 74 707 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Large valley polarization in a novel two-dimensional semiconductor H-ZrX ₂ (X = Cl, Br, I). Journal of Physics Condensed Matter, 2022, 34, 075701.	0.7	6
2	Spin-Dependent Polaron Dynamics in Organic Ferromagnets. Journal of Physical Chemistry Letters, 2022, 13, 614-621.	2.1	6
3	Length dependence of magnetoresistance in organic spin valves. Journal of Applied Physics, 2022, 131, 055501.	1.1	0
4	Robust valley polarization induced by super-exchange effects in HfNX (X = Cl, Br, I)/FeCl2 two-dimensional ferrovalley heterostructures. Applied Physics Letters, 2022, 120, .	1.5	18
5	Type-II Band Alignment and Tunable Optical Absorption in MoSSe/InS van der Waals Heterostructure. Frontiers in Chemistry, 2022, 10, 861838.	1.8	2
6	Mechanism of length-induced magnetism in polyacene molecules. Physical Review B, 2022, 105, .	1.1	4
7	Spin precession of polarons in organic ferromagnets. Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, 433, 128024.	0.9	4
8	Molecular rectification assisted by spin-polarized hybrid interfacial states. Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, , 128200.	0.9	1
9	Reversible switching of anomalous valley Hall effect in ferrovalley Janus <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:mi>T</mml:mi></mml:mrow></mml:math>	ې د جې د جې د د د د د د د د د د د د د د	>,â^',l:n
10	Electric field induced magnetism decline in organic ferromagnets. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 131, 114729.	1.3	3
11	Length-induced large magnetoresistance in polyacene molecular spin valves. Results in Physics, 2021, 27, 104510.	2.0	4
12	Electronic structure and enhanced photocatalytic properties in $\frac{Ca(OH)}_{2}$ \$/GeC van der Waals heterostructure. European Physical Journal B, 2021, 94, 1.	0.6	2
13	Large Rectification Ratio of up to 106 for Conjugation-Group-Terminated Undecanethiolate Single-Molecule Diodes on Pt Electrodes. Journal of Physical Chemistry C, 2021, 125, 20783-20790.	1.5	4
14	Modulation of hybrid interface states and magnetoresistance in quantum interference systems via functional groups. Journal of Magnetism and Magnetic Materials, 2021, 537, 168138.	1.0	4
15	Site-dependent spin-polarized tunneling via hybrid interface states on molecule/ferromagnet surface. Physica E: Low-Dimensional Systems and Nanostructures, 2021, , 115071.	1.3	O
16	Manipulable Electronic and Optical Properties of Two-Dimensional MoSTe/MoGe2N4 van der Waals Heterostructures. Nanomaterials, 2021, 11, 3338.	1.9	8
17	Tunneling magnetoresistance in ferromagnet/organic-ferromagnet/metal junctions. Chinese Physics B, 2020, 29, 017303.	0.7	7
18	Magnetic manipulation of orbital hybridization and magnetoresistance in organic ferromagnetic co-oligomers. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 124, 114327.	1.3	5

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19	Protonation control of spin transport properties in magnetic single-molecule junctions. Journal of Materials Science, 2020, 55, 16311-16322.	1.7	7
20	Strain forces tuned the electronic and optical properties in GaTe/MoS ₂ van der Waals heterostructures. RSC Advances, 2020, 10, 25136-25142.	1.7	5
21	Electronic Structure and Optical Properties of a Mn-Doped InSe/WSe2 van der Walls Heterostructure: First Principles Calculations. Journal of the Korean Physical Society, 2020, 77, 587-591.	0.3	2
22	Manipulating Current Spin Polarization in Magnetic Single-Molecule Junctions via Destructive Quantum Interference. Journal of Physical Chemistry C, 2020, 124, 12144-12152.	1.5	18
23	Enhancement of ferroelectric performance in PVDF:Fe3O4 nanocomposite based organic multiferroic tunnel junctions. Applied Physics Letters, 2020, 116, .	1.5	19
24	Tuning electronic and optical properties of monolayer PdSe2 by introducing defects: first-principles calculations. Scientific Reports, 2020, 10, 4028.	1.6	16
25	Weak-field polaron dynamics in organic ferromagnets. Physical Chemistry Chemical Physics, 2020, 22, 15707-15715.	1.3	4
26	Modulating hybrid interface states in magnetic molecular junctions by molecular geometrical torsion. Journal of Magnetism and Magnetic Materials, 2019, 489, 165465.	1.0	7
27	Multistate magnetoresistance in zigzag-edge trigonal graphene magnetic junctions. Journal of Materials Science, 2019, 54, 5551-5560.	1.7	5
28	Bias and molecular-length dependent odd–even effect of rectification in 4′-methyl-2,2′-bipyridyl-terminated <i>n</i> -alkanethiolate single-molecule diodes. Journal of Materials Chemistry C, 2019, 7, 9000-9007.	2.7	7
29	Spontaneous spin polarization of methanol molecule adsorbed on B- or N-doped graphene: first-principles calculations. European Physical Journal B, 2019, 92, 1.	0.6	3
30	Enhancement of magnetoresistance and current spin polarization in single-molecule junctions by manipulating the hybrid interface states via anchoring groups. Journal of Magnetism and Magnetic Materials, 2019, 479, 247-253.	1.0	20
31	Spin polarization properties of two-dimensional MoSeTe induced by transition-metal doping: first-principles calculations. European Physical Journal B, 2019, 92, 1.	0.6	7
32	Optimizing the conductance switching performance in photoswitchable dimethyldihydropyrene/cyclophanediene single-molecule junctions. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 109, 1-5.	1.3	21
33	Polarons in organic ferromagnets. Organic Electronics, 2018, 55, 133-139.	1.4	14
34	Adsorption of methanol molecule on graphene: Experimental results and first-principles calculations. International Journal of Modern Physics B, 2018, 32, 1850102.	1.0	6
35	Designing molecular rectifiers and spin valves using metallocene-functionalized undecanethiolates: one transition metal atom matters. Journal of Materials Chemistry C, 2018, 6, 2105-2112.	2.7	36
36	Spin Polarization Properties of Pentagonal PdSe2 Induced by 3D Transition-Metal Doping: First-Principles Calculations. Materials, 2018, 11, 2339.	1.3	12

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37	Optical Properties of Graphene/MoS2 Heterostructure: First Principles Calculations. Nanomaterials, 2018, 8, 962.	1.9	64
38	Ground-state properties of metal/organic-ferromagnet heterojunctions. Physical Review B, 2018, 98, .	1.1	16
39	Theoretical understanding of the inversion of rectification direction in ferrocenyl-embedded tridecanethiolate single-molecule rectifiers. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 103, 397-402.	1.3	20
40	Modulating spin-dependent electron transport in benzene-dithiolate magnetic junctions by hybrid interface states. Journal Physics D: Applied Physics, 2018, 51, 345302.	1.3	16
41	Modulation of spatial spin polarization at organic spinterface by side groups. Applied Surface Science, 2018, 427, 416-420.	3.1	8
42	Modulation of organic interfacial spin polarization by interfacial angle. Chemical Physics Letters, 2017, 667, 15-19.	1.2	4
43	Spin polarization properties at the spinterface of thiophene/Fe(100): First principles calculations. International Journal of Modern Physics B, 2017, 31, 1750072.	1.0	1
44	Is there a specific correlation between conductance and molecular aromaticity in single-molecule junctions?. Organic Electronics, 2017, 48, 29-34.	1.4	14
45	Mechanisms of the odd-even effect and its reversal in rectifying performance of ferrocenyl-n-alkanethiolate molecular diodes. Organic Electronics, 2017, 49, 76-84.	1.4	24
46	Tuning the Direction of Rectification by Adjusting the Location of the Bipyridyl Group in Alkanethiolate Molecular Diodes. Journal of Physical Chemistry C, 2017, 121, 7643-7648.	1.5	30
47	Spin selection at organic spinterface by anchoring group. Applied Surface Science, 2017, 409, 60-64.	3.1	10
48	Towards Rectifying Performance at the Molecular Scale. Topics in Current Chemistry, 2017, 375, 85.	3.0	9
49	Adsorption properties of chloroform molecule on graphene: Experimental and first-principles calculations. Modern Physics Letters B, 2017, 31, 1750335.	1.0	4
50	Spin-dependent transport and functional design in organic ferromagnetic devices. Beilstein Journal of Nanotechnology, 2017, 8, 1919-1931.	1.5	13
51	Spin Polarization at Organic-Ferromagnetic Interface: Effect of Contact Configuration. Chinese Journal of Chemical Physics, 2016, 29, 344-348.	0.6	11
52	Length dependence of rectification in organic co-oligomer spin rectifiers. Chinese Physics B, 2016, 25, 057308.	0.7	15
53	Electronic structures of spinterface for thiophene molecule adsorbed at Co, Fe, and Ni electrode: First principles calculations. Applied Surface Science, 2016, 389, 916-920.	3.1	12
54	Spin polarization of polaron in quasi-one dimensional organic system. Modern Physics Letters B, 2015, 29, 1450266.	1.0	3

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55	Spin polarized current injection and transportation in a double T-shaped organic spintronic device. Science China: Physics, Mechanics and Astronomy, 2015, 58, 1-5.	2.0	1
56	Effect of interfacial coupling on rectification in organic spin rectifiers. Chinese Physics B, 2015, 24, 077308.	0.7	3
57	Density Functional Theory Calculations of Charge-Induced Spin Polarization in Pentacene. Chinese Journal of Chemical Physics, 2014, 27, 519-522.	0.6	1
58	Structural and electronic properties of SiC / AlN core/shell nanowires: a first-principles study. Modern Physics Letters B, 2014, 28, 1450195.	1.0	3
59	Spin-excited states and rectification in an organic spin rectifier. Chinese Physics B, 2014, 23, 087306.	0.7	2
60	Molecular-length induced inversion of rectification in diblock pyrimidinyl–phenyl molecular junctions. Chemical Physics Letters, 2014, 591, 296-300.	1.2	11
61	Multi-state magnetoresistance in ferromagnet/organic-ferromagnet/ferromagnet junctions. Applied Physics Letters, 2014, 104, 033302.	1.5	15
62	Stretch or contraction induced inversion of rectification in diblock molecular junctions. Journal of Chemical Physics, 2013, 139, 094702.	1.2	23
63	Theoretical Studies on Protonation-Induced Inversion of the Rectifying Direction in Dipyrimidinyl–Diphenyl Diblock Molecular Junctions. Journal of Physical Chemistry C, 2012, 116, 3773-3778.	1.5	36
64	Modulation of Rectification in Diblock Co-oligomer Diodes by Adjusting Anchoring Groups for Both Symmetric and Asymmetric Electrodes. Journal of Physical Chemistry C, 2012, 116, 22009-22014.	1.5	40
65	AMPLIFICATION OF CURRENT SPIN POLARIZATION IN FERROMAGNETIC/ORGANIC SYSTEM WITH SPIN-RELATED INTERFACIAL RESISTANCES. International Journal of Modern Physics B, 2011, 25, 4339-4345.	1.0	O
66	Length-dependent inversion of rectification in diblock co-oligomer diodes. Applied Physics Letters, 2011, 99, 082105.	1.5	17
67	Effect of proportion on rectification in organic co-oligomer spin rectifiers. Chinese Physics B, 2011, 20, 077306.	0.7	4
68	The effects of contact configurations on the rectification of dipyrimidinylâ€"diphenyl diblock molecular junctions. Chinese Physics B, 2011, 20, 127304.	0.7	18
69	Effect of electron delocalization in quasi-one-dimensional organic ferromagnet. Physica B: Condensed Matter, 2010, 405, S299-S302.	1.3	5
70	Spin-current rectification in an organic magnetic/nonmagnetic device. Journal of Chemical Physics, 2008, 129, 234708.	1.2	38
71	Spin filtering through a metal/organic-ferromagnet/metal structure. Physical Review B, 2007, 75, .	1.1	41
72	Bias-induced orbital hybridization in diblock co-oligomer diodes. Applied Physics Letters, 2007, 91, .	1.5	32

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73	Ground state and polaron and bipolaron excited states in polydiacetylene. Science in China Series G: Physics, Mechanics and Astronomy, 2006, 49, 430-439.	0.2	2
74	Bias-induced reconstruction of hybrid interface states in magnetic molecular junctions. Chinese Physics B, 0 , , .	0.7	1