

Helena Alves

List of Publications by Year in descending order

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45
papers

1,740
citations

331670

21
h-index

265206

42
g-index

45
all docs

45
docs citations

45
times ranked

2666
citing authors

#	ARTICLE	IF	CITATIONS
1	Metallic conduction at organic charge-transfer interfaces. <i>Nature Materials</i> , 2008, 7, 574-580.	27.5	354
2	High Electron Mobility in Vacuum and Ambient for PDIF-CN ₂ Single-Crystal Transistors. <i>Journal of the American Chemical Society</i> , 2009, 131, 2462-2463.	13.7	257
3	Gold Complexes with Dithiothiophene Ligands: A Metal Based on a Neutral Molecule. <i>Chemistry - A European Journal</i> , 2001, 7, 511-519.	3.3	114
4	Photoconductive response in organic charge transfer interfaces with high quantum efficiency. <i>Nature Communications</i> , 2013, 4, 1842.	12.8	72
5	Transparent conductive graphene textile fibers. <i>Scientific Reports</i> , 2015, 5, 9866.	3.3	72
6	Graphene electronic fibres with touch-sensing and light-emitting functionalities for smart textiles. <i>Npj Flexible Electronics</i> , 2018, 2, .	10.7	62
7	Highly Efficient Rubrene-Graphene Charge-Transfer Interfaces as Phototransistors in the Visible Regime. <i>Advanced Materials</i> , 2017, 29, 1702993.	21.0	58
8	Quantitative analysis of density-dependent transport in tetramethyltetraselenafulvalene single-crystal transistors: Intrinsic properties and trapping. <i>Physical Review B</i> , 2009, 80, .	3.2	57
9	Low Operating Voltage Carbon-Graphene Hybrid E-textile for Temperature Sensing. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 29861-29867.	8.0	54
10	A Series of Transition Metal Bis(dicyanobenzene-dithiolate) Complexes [M(dcbdt) ₂] (M = Fe, Co, Ni, Pd, Pt). <i>Journal of Inorganic Chemistry</i> , 2001, 2001, 3119-3126.	2.0	52
11	Towards conductive textiles: coating polymeric fibres with graphene. <i>Scientific Reports</i> , 2017, 7, 4250.	3.3	45
12	Synthesis, Structure and Physical Properties of Tetrabutylammonium Salts of Nickel Complexes with the New Ligand dcbdt = 4,5-dicyanobenzene-1,2-dithiolate, [Ni(dcbdt) ₂] ^{z+} (z = 0.4, 1, 2). <i>European Journal of Inorganic Chemistry</i> , 2001, 2001, 3119-3126.	2.0	41
13	Effect of Molecular Stacking on Exciton Diffusion in Crystalline Organic Semiconductors. <i>Journal of the American Chemical Society</i> , 2015, 137, 7104-7110.	13.7	37
14	Organic Spin Ladders from Tetrathiafulvalene (TTF) Derivatives. <i>Advanced Functional Materials</i> , 2005, 15, 1023-1035.	14.9	33
15	Small gap semiconducting organic charge-transfer interfaces. <i>Applied Physics Letters</i> , 2010, 96, 232102.	3.3	28
16	Nickel Complexes Based on Thiophenedithiolate Ligands: Magnetic Properties of Metallocenium Salts. <i>European Journal of Inorganic Chemistry</i> , 2001, 2001, 3127-3133.	2.0	26
17	(n-Bu ₄ N) ₂ [Fe(dcbdt) ₂] ₂ . Synthesis, crystal structure and magnetic characterisation. <i>Polyhedron</i> , 2003, 22, 2481-2486.	2.2	26
18	Ultrasensitive organic phototransistors with multispectral response based on thin-film/single-crystal bilayer structures. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	25

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19	Photoacid cross-linkable polyfluorenes for optoelectronics applications. <i>Synthetic Metals</i> , 2008, 158, 643-653.	3.9	24
20	Use of cross-linkable polyfluorene in the fabrication of multilayer polyfluorene-based light-emitting diodes with improved efficiency. <i>Applied Physics Letters</i> , 2006, 89, 143519.	3.3	23
21	Crystal Structure and Magnetic Behavior of the Decamethylferrocenium and Decamethylchromocenium Salts of Bis(ethylenedithiolato)nickel, $[M(Cp^*)_2][Ni(edt)_2]$ Magnetic Anisotropy and Metamagnetic Behavior of $[Fe(Cp^*)_2][Ni(edt)_2]$. <i>European Journal of Inorganic Chemistry</i> , 2000, 2000, 2101-2110.	2.0	22
22	Synthesis, X-ray structures, electrochemistry, magnetic properties, and theoretical studies of the novel monomeric $[CoI_2(dppfO_2)]$ and polymeric chain $[CoI_2(1/4-dppfO_2)_n]$. <i>Dalton Transactions RSC</i> , 2002, , 4595-4602.	2.3	21
23	Two New Families of Charge Transfer Solids Based on $[M(mnt)_2]n^+$ and the Donors BMDT-TTF and EDT-TTF: Conducting and Magnetic Properties. <i>Journal of Solid State Chemistry</i> , 2002, 168, 563-572.	2.9	21
24	The family of molecular conductors $[(n-Bu)_4N]_2[M(dcbdt)_2]_5$, M = Cu, Ni, Au; band filling and stacking modulation effects. <i>Journal of Materials Chemistry</i> , 2008, 18, 2825.	6.7	19
25	Structure and physical properties of $(n-Bu_4N)_2[Au(dcbdt)_2]_5$. <i>Synthetic Metals</i> , 2001, 120, 1011-1012.	3.9	18
26	Conducting oriented- $[(n-C_4H_9)_4N]_2[Ni(dcbdt)_2]_5$ and new (BEDT-TTF) $[Ni(dcbdt)_2]$ phases as microcrystalline films, electrodeposited on silicon substrates. <i>Journal of Materials Chemistry</i> , 2004, 14, 2801.	6.7	18
27	Electronic localization in an extreme 1-D conductor: the organic salt (TTDM-TTF) $[Au(mnt)]$. <i>European Physical Journal B</i> , 2002, 29, 27-33.	1.5	15
28	Enhanced conductivity and photoresponse at a rubrene single-crystal/PCBM film interface. <i>Journal of Materials Chemistry C</i> , 2014, 2, 3639-3644.	5.5	15
29	Harvesting circuits for triboelectric nanogenerators for wearable applications. <i>IScience</i> , 2022, 25, 103977.	4.1	15
30	Conductors based on metal-bisdicyanobenzodithiolate complexes. <i>Synthetic Metals</i> , 2003, 133-134, 397-399.	3.9	14
31	Magnetic and electrical properties of $(DT-TTF)_4[Au(pds)_2]_3$. <i>Polyhedron</i> , 2003, 22, 2447-2452.	2.2	13
32	5-Methylthiophene-2,3-dithiolene Transition Metal Complexes. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 3989-3999.	2.0	11
33	Synthesis and crystal structure of copper and gold complexes of 1,2,5-thiadiazole-3,4-dithiolate. Charge transfer salt with TTF. <i>Inorganic Chemistry Communication</i> , 2003, 6, 565-568.	3.9	10
34	Graphene Based Triboelectric Nanogenerators Using Water Based Solution Process. <i>Frontiers in Physics</i> , 2021, 9, .	2.1	10
35	New dithiothiophene complexes for conducting and magnetic materials. <i>Synthetic Metals</i> , 2001, 120, 699-702.	3.9	8
36	Charge transfer salts based on $M(dcbdt)_2$ complexes (M=Au and Ni). <i>Synthetic Metals</i> , 2003, 135-136, 543-544.	3.9	8

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37	Conducting films based on single-component molecular metals. <i>Chemical Communications</i> , 2015, 51, 13117-13119.	4.1	8
38	Impact of Molecular Organization on Exciton Diffusion in Photosensitive Single-Crystal Halogenated Perylenediimides Charge Transfer Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 27720-27729.	8.0	8
39	Organic Single Crystal Patterning Method for Micrometric Photosensors. <i>Advanced Functional Materials</i> , 2021, 31, 2105638.	14.9	8
40	Strategies to construct spin-ladders using TTF derivatives as molecular building blocks. <i>Synthetic Metals</i> , 2003, 133-134, 523-526.	3.9	6
41	Molecular compounds based on DT-TTF and Au(cdc) 2 complex. Structural, magnetic and electrical properties. <i>Polyhedron</i> , 2003, 22, 2415-2422.	2.2	5
42	Optical properties of cross-linkable fluorene copolymers. , 2006, , .		2
43	Acceptor-donor-acceptor π -extended systems based on $\hat{I}\pm$ -dithiophenetetrathiafulvalene ($\hat{I}\pm$ -DT-TTF): Facile synthesis and photoconductivity studies. <i>Dyes and Pigments</i> , 2022, , 110475.	3.7	2
44	Through-space hopping transport in an iodine-doped perylene-based metal-organic framework. <i>Molecular Systems Design and Engineering</i> , 2022, 7, 1065-1072.	3.4	2
45	Conversion of antibacterial activity of graphene-coated textiles through surface polarity. <i>Nano Select</i> , 0, , .	3.7	1