

John G Labram

List of Publications by Year in descending order

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52
papers

2,794
citations

172457

29
h-index

175258

52
g-index

61
all docs

61
docs citations

61
times ranked

5183
citing authors

#	ARTICLE	IF	CITATIONS
1	A piperidinium salt stabilizes efficient metal-halide perovskite solar cells. <i>Science</i> , 2020, 369, 96-102.	12.6	461
2	Real-Time Investigation of Crystallization and Phase Segregation Dynamics in P3HT:PCBM Solar Cells During Thermal Annealing. <i>Advanced Functional Materials</i> , 2011, 21, 1701-1708.	14.9	207
3	Long-range exciton diffusion in molecular non-fullerene acceptors. <i>Nature Communications</i> , 2020, 11, 5220.	12.8	204
4	Low band gap selenophene-diketopyrrolopyrrole polymers exhibiting high and balanced ambipolar performance in bottom-gate transistors. <i>Chemical Science</i> , 2012, 3, 181-185.	7.4	169
5	High Electron Mobility Thin-Film Transistors Based on Solution-Processed Semiconducting Metal Oxide Heterojunctions and Quasi-Superlattices. <i>Advanced Science</i> , 2015, 2, 1500058.	11.2	134
6	Temperature-Dependent Polarization in Field-Effect Transport and Photovoltaic Measurements of Methylammonium Lead Iodide. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3565-3571.	4.6	105
7	Low-voltage ambipolar phototransistors based on a pentacene/PC61BM heterostructure and a self-assembled nano-dielectric. <i>Organic Electronics</i> , 2010, 11, 1250-1254.	2.6	98
8	Charge-Carrier Dynamics and Crystalline Texture of Layered Ruddlesden-Popper Hybrid Lead Iodide Perovskite Thin Films. <i>ACS Energy Letters</i> , 2018, 3, 380-386.	17.4	97
9	Flexible Organic Transistors with Controlled Nanomorphology. <i>Nano Letters</i> , 2016, 16, 314-319.	9.1	85
10	New perspectives on calcium environments in inorganic materials containing calcium-oxygen bonds: A combined computational-experimental ⁴³ Ca NMR approach. <i>Chemical Physics Letters</i> , 2008, 464, 42-48.	2.6	83
11	Ambipolar organic transistors and near-infrared phototransistors based on a solution-processable squarilium dye. <i>Journal of Materials Chemistry</i> , 2010, 20, 3673.	6.7	77
12	Infinite Polyiodide Chains in the Pyrroloperylene-Iodine Complex: Insights into the Starch-Iodine and Perylene-Iodine Complexes. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8032-8035.	13.8	61
13	Distinguishing the influence of structural and energetic disorder on electron transport in fullerene multi-adducts. <i>Materials Horizons</i> , 2015, 2, 113-119.	12.2	49
14	Deciphering photocarrier dynamics for tuneable high-performance perovskite-organic semiconductor heterojunction phototransistors. <i>Nature Communications</i> , 2019, 10, 4475.	12.8	49
15	Analysis of Recombination Losses in a Pentacene/C ₆₀ Organic Bilayer Solar Cell. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2759-2763.	4.6	47
16	Exploring Two-Dimensional Transport Phenomena in Metal Oxide Heterointerfaces for Next-Generation, High-Performance, Thin-Film Transistor Technologies. <i>Small</i> , 2015, 11, 5472-5482.	10.0	45
17	Main-Group Halide Semiconductors Derived from Perovskite: Distinguishing Chemical, Structural, and Electronic Aspects. <i>Inorganic Chemistry</i> , 2017, 56, 11-25.	4.0	45
18	High Conductivity in a Nonplanar n-Doped Ambipolar Semiconducting Polymer. <i>Chemistry of Materials</i> , 2017, 29, 9742-9750.	6.7	42

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19	Synthesis and Characterization of Fused Pyrrolo[3,2- <i>d</i> :4,5- <i>d'</i>]bisthiazole-Containing Polymers. <i>Organic Letters</i> , 2010, 12, 5478-5481.	4.6	40
20	(TTF)Pb ₂ I ₅ : A Radical Cation-Stabilized Hybrid Lead Iodide with Synergistic Optoelectronic Signatures. <i>Chemistry of Materials</i> , 2016, 28, 3607-3611.	6.7	40
21	Predicting Solar Cell Performance from Terahertz and Microwave Spectroscopy. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	40
22	The tuning of the energy levels of dibenzosilole copolymers and applications in organic electronics. <i>Journal of Materials Chemistry</i> , 2011, 21, 11800.	6.7	39
23	In-Situ Monitoring of the Solid-State Microstructure Evolution of Polymer:Fullerene Blend Films Using Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2011, 21, 356-363.	14.9	37
24	Charge transport in a two-dimensional hybrid metal halide thiocyanate compound. <i>Journal of Materials Chemistry C</i> , 2017, 5, 5930-5938.	5.5	37
25	Signatures of Quantized Energy States in Solution-Processed Ultrathin Layers of Metal Oxide Semiconductors and Their Devices. <i>Advanced Functional Materials</i> , 2015, 25, 1727-1736.	14.9	36
26	Solution-processed dye-sensitized ZnO phototransistors with extremely high photoresponsivity. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	34
27	n-Type Surface Doping of MAPbI ₃ via Charge Transfer from Small Molecules. <i>Advanced Electronic Materials</i> , 2018, 4, 1800087.	5.1	33
28	Mono- and Mixed-Valence Tetrathiafulvalene Semiconductors (TTF)Bi ₄ and (TTF) ₄ Bi ₆ with 1D and 0D Bismuth-Iodide Networks. <i>Inorganic Chemistry</i> , 2017, 56, 395-401.	4.0	32
29	Shining Light on Sulfide Perovskites: LaYS ₃ Material Properties and Solar Cells. <i>Chemistry of Materials</i> , 2019, 31, 3359-3369.	6.7	32
30	Multi-Sulfur-Annulated Fused Perylene Diimides for Organic Solar Cells with Low Open-Circuit Voltage Loss. <i>ACS Applied Energy Materials</i> , 2019, 2, 3805-3814.	5.1	31
31	Indole-substituted nickel dithiolenes in electronic and optoelectronic devices. <i>Journal of Materials Chemistry</i> , 2011, 21, 15422.	6.7	29
32	Self-assembly and charge transport properties of a benzobisthiazole end-capped with dihexyl thienothiophene units. <i>Journal of Materials Chemistry</i> , 2011, 21, 2091-2097.	6.7	28
33	Recombination at high carrier density in methylammonium lead iodide studied using time-resolved microwave conductivity. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	27
34	Energy Quantization in Solution-Processed Layers of Indium Oxide and Their Application in Resonant Tunneling Diodes. <i>Advanced Functional Materials</i> , 2016, 26, 1656-1663.	14.9	21
35	Light soaking in metal halide perovskites studied via steady-state microwave conductivity. <i>Communications Physics</i> , 2020, 3, .	5.3	20
36	Measurement of the diffusivity of fullerenes in polymers using bilayer organic field effect transistors. <i>Physical Review B</i> , 2011, 84, .	3.2	18

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37	A perovskite retinomorph sensor. Applied Physics Letters, 2020, 117, .	3.3	17
38	Impact of Moisture on Mobility in Methylammonium Lead Iodide and Formamidinium Lead Iodide. Journal of Physical Chemistry Letters, 2020, 11, 4976-4983.	4.6	17
39	Synthesis and characterisation of new diindenodithienothiophene (DITT) based materials. Journal of Materials Chemistry, 2010, 20, 1112-1116.	6.7	14
40	Impact of Fullerene Molecular Weight on P3HT:PCBM Microstructure Studied Using Organic Thin-Film Transistors. Advanced Energy Materials, 2011, 1, 1176-1183.	19.5	14
41	Thermal stability of mobility in methylammonium lead iodide. JPhys Materials, 2020, 3, 014003.	4.2	14
42	Time-Resolved Changes in Dielectric Constant of Metal Halide Perovskites under Illumination. Journal of the American Chemical Society, 2020, 142, 19799-19803.	13.7	14
43	Carrier-Selective Traps: A New Approach for Fabricating Circuit Elements with Ambipolar Organic Semiconductors. Advanced Electronic Materials, 2017, 3, 1600537.	5.1	13
44	Synthesis of tetraselenophenoporphyrazine and its application in transistor devices. Journal of Materials Chemistry C, 2013, 1, 6198.	5.5	9
45	Correlating Non-Geminate Recombination with Film Structure: A Comparison of Polythiophene: Fullerene Bilayer and Blend Films. Journal of Physical Chemistry Letters, 2014, 5, 3669-3676.	4.6	9
46	Steady-state microwave conductivity reveals mobility-lifetime product in methylammonium lead iodide. Applied Physics Letters, 2018, 113, 153902.	3.3	9
47	Role of the Blend Ratio in Polymer:Fullerene Phototransistors. ACS Applied Electronic Materials, 2020, 2, 2257-2264.	4.3	8
48	Resolving in-plane and out-of-plane mobility using time resolved microwave conductivity. Journal of Materials Chemistry C, 2020, 8, 10761-10766.	5.5	7
49	Inter-Sample and Intra-Sample Variability in Electronic Properties of Methylammonium Lead Iodide. Advanced Functional Materials, 2021, 31, 2101843.	14.9	4
50	Quantifying the performance of perovskite retinomorph sensors. Journal Physics D: Applied Physics, 2021, 54, 475110.	2.8	4
51	An Organic Retinomorph Sensor. ACS Applied Electronic Materials, 2022, 4, 92-98.	4.3	4
52	The effect of substrate curvature on capacitance and current-voltage characteristics in thin-film transistors on flexible substrates. JPhys Materials, 2021, 4, 025002.	4.2	2