John G Labram

List of Publications by Year
in descending order

52	2,794	172457	175258
papers	citations	29 h-index	52 g-index

61	61	61	5183
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Predicting Solar Cell Performance from Terahertz and Microwave Spectroscopy. Advanced Energy Materials, 2022, 12, .	19.5	40
2	An Organic Retinomorphic Sensor. ACS Applied Electronic Materials, 2022, 4, 92-98.	4.3	4
3	The effect of substrate curvature on capacitance and currentâ€“voltage characteristics in thin-film transistors on flexible substrates. JPhys Materials, 2021, 4, 025002.	4.2	2
4	Interâ€Sample and Intraâ€Sample Variability in Electronic Properties of Methylammonium Lead Iodide. Advanced Functional Materials, 2021, 31, 2101843.	14.9	4
5	Quantifying the performance of perovskite retinomorphic sensors. Journal Physics D: Applied Physics, 2021, 54, 475110.	2.8	4
6	Thermal stability of mobility in methylammonium lead iodide. JPhys Materials, 2020, 3, 014003.	4.2	14
7	Long-range exciton diffusion in molecular non-fullerene acceptors. Nature Communications, 2020, 11, 5220.	12.8	204
8	Role of the Blend Ratio in Polymer:Fullerene Phototransistors. ACS Applied Electronic Materials, 2020, 2, 2257-2264.	4.3	8
9	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
10	A perovskite retinomorphic sensor. Applied Physics Letters, 2020, 117, .	3.3	17
11	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
12	A piperidinium salt stabilizes efficient metal-halide perovskite solar cells. Science, 2020, 369, 96-102.	12.6	461
13	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
14	Light soaking in metal halide perovskites studied via steady-state microwave conductivity. Communications Physics, 2020, 3, .	5.3	20
15	Deciphering photocarrier dynamics for tuneable high-performance perovskite-organic semiconductor heterojunction phototransistors. Nature Communications, 2019, 10, 4475.	12.8	49
16	Multi-Sulfur-Annulated Fused Perylene Diimides for Organic Solar Cells with Low Open-Circuit Voltage Loss. ACS Applied Energy Materials, 2019, 2, 3805-3814.	5.1	31
17	Shining Light on Sulfide Perovskites: LaYS₃ Material Properties and Solar Cells. Chemistry of Materials, 2019, 31, 3359-3369.	6.7	32
18	Charge-Carrier Dynamics and Crystalline Texture of Layered Ruddlesdenâ€“Popper Hybrid Lead Iodide Perovskite Thin Films. ACS Energy Letters, 2018, 3, 380-386.	17.4	97

#	Article	IF	Citations
19	Steady-state microwave conductivity reveals mobility-lifetime product in methylammonium lead iodide. Applied Physics Letters, 2018, 113, 153902.	3.3	9
20	Nâ€Type Surface Doping of MAPbI₃ via Charge Transfer from Small Molecules. Advanced Electronic Materials, 2018, 4, 1800087.	5.1	33
21	Carrierâ€Selective Traps: A New Approach for Fabricating Circuit Elements with Ambipolar Organic Semiconductors. Advanced Electronic Materials, 2017, 3, 1600537.	5.1	13
22	Charge transport in a two-dimensional hybrid metal halide thiocyanate compound. Journal of Materials Chemistry C, 2017, 5, 5930-5938.	5.5	37
23	Mono- and Mixed-Valence Tetrathiafulvalene Semiconductors (TTF)BiI₄ and (TTF)₄BiI₆ with 1D and 0D Bismuth-Iodide Networks. Inorganic Chemistry, 2017, 56, 395-401.	4.0	32
24	Recombination at high carrier density in methylammonium lead iodide studied using time-resolved microwave conductivity. Journal of Applied Physics, 2017, 122, .	2.5	27
25	High Conductivity in a Nonplanar n-Doped Ambipolar Semiconducting Polymer. Chemistry of Materials, 2017, 29, 9742-9750.	6.7	42
26	Main-Group Halide Semiconductors Derived from Perovskite: Distinguishing Chemical, Structural, and Electronic Aspects. Inorganic Chemistry, 2017, 56, 11-25.	4.0	45
27	Energy Quantization in Solutionâ€Processed Layers of Indium Oxide and Their Application in Resonant Tunneling Diodes. Advanced Functional Materials, 2016, 26, 1656-1663.	14.9	21
28	Infinite Polyiodide Chains in the Pyrroloperyleneâ€“Iodine Complex: Insights into the Starchâ€“Iodine and Peryleneâ€“Iodine Complexes. Angewandte Chemie - International Edition, 2016, 55, 8032-8035.	13.8	61
29	(TTF)Pb₂I₅: A Radical Cation-Stabilized Hybrid Lead Iodide with Synergistic Optoelectronic Signatures. Chemistry of Materials, 2016, 28, 3607-3611.	6.7	40
30	Flexible Organic Transistors with Controlled Nanomorphology. Nano Letters, 2016, 16, 314-319.	9.1	85
31	Exploring Two-Dimensional Transport Phenomena in Metal Oxide Heterointerfaces for Next-Generation, High-Performance, Thin-Film Transistor Technologies. Small, 2015, 11, 5472-5482.	10.0	45
32	Signatures of Quantized Energy States in Solutionâ€Processed Ultrathin Layers of Metalâ€Oxide Semiconductors and Their Devices. Advanced Functional Materials, 2015, 25, 1727-1736.	14.9	36
33	Distinguishing the influence of structural and energetic disorder on electron transport in fullerene multi-adducts. Materials Horizons, 2015, 2, 113-119.	12.2	49
34	High Electron Mobility Thinâ€Film Transistors Based on Solutionâ€Processed Semiconducting Metal Oxide Heterojunctions and Quasiâ€Superlattices. Advanced Science, 2015, 2, 1500058.	11.2	134
35	Temperature-Dependent Polarization in Field-Effect Transport and Photovoltaic Measurements of Methylammonium Lead Iodide. Journal of Physical Chemistry Letters, 2015, 6, 3565-3571.	4.6	105
36	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

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37	Synthesis of tetraselenophenoporphyrazine and its application in transistor devices. Journal of Materials Chemistry C, 2013, 1, 6198.	5.5	9
38	Solution-processed dye-sensitized ZnO phototransistors with extremely high photoresponsivity. Journal of Applied Physics, 2012, 112, .	2.5	34
39	Low band gap selenopheneâ€“diketopyrrolopyrrolepolymers exhibiting high and balanced ambipolar performance in bottom-gate transistors. Chemical Science, 2012, 3, 181-185.	7.4	169
40	Indole-substituted nickel dithiolene complexes in electronic and optoelectronic devices. Journal of Materials Chemistry, 2011, 21, 15422.	6.7	29
41	Analysis of Recombination Losses in a Pentacene/C₆₀ Organic Bilayer Solar Cell. Journal of Physical Chemistry Letters, 2011, 2, 2759-2763.	4.6	47
42	Self-assembly and charge transport properties of a benzobisthiazole end-capped with dihexyl thienothiophene units. Journal of Materials Chemistry, 2011, 21, 2091-2097.	6.7	28
43	The tuning of the energy levels of dibenzosilole copolymers and applications in organic electronics. Journal of Materials Chemistry, 2011, 21, 11800.	6.7	39
44	In-Situ Monitoring of the Solid-State Microstructure Evolution of Polymer:Fullerene Blend Films Using Field-Effect Transistors. Advanced Functional Materials, 2011, 21, 356-363.	14.9	37
45	Realâ€Time Investigation of Crystallization and Phaseâ€Segregation Dynamics in P3HT:PCBM Solar Cells During Thermal Annealing. Advanced Functional Materials, 2011, 21, 1701-1708.	14.9	207
46	Impact of Fullerene Molecular Weight on P3HT:PCBM Microstructure Studied Using Organic Thinâ€Film Transistors. Advanced Energy Materials, 2011, 1, 1176-1183.	19.5	14
47	Measurement of the diffusivity of fullerenes in polymers using bilayer organic field effect transistors. Physical Review B, 2011, 84, .	3.2	18
48	Low-voltage ambipolar phototransistors based on a pentacene/PC61BM heterostructure and a self-assembled nano-dielectric. Organic Electronics, 2010, 11, 1250-1254.	2.6	98
49	Synthesis and Characterization of Fused Pyrrolo[3,2-d:4,5-dâ€²]bisthiazole-Containing Polymers. Organic Letters, 2010, 12, 5478-5481.	4.6	40
50	Synthesis and characterisation of new diindenodithienothiophene (DITT) based materials. Journal of Materials Chemistry, 2010, 20, 1112-1116.	6.7	14
51	Ambipolar organic transistors and near-infrared phototransistors based on a solution-processable squarilium dye. Journal of Materials Chemistry, 2010, 20, 3673.	6.7	77
52	New perspectives on calcium environments in inorganic materials containing calciumâ€“oxygen bonds: A combined computationalâ€“experimental 43Ca NMR approach. Chemical Physics Letters, 2008, 464, 42-48.	2.6	83