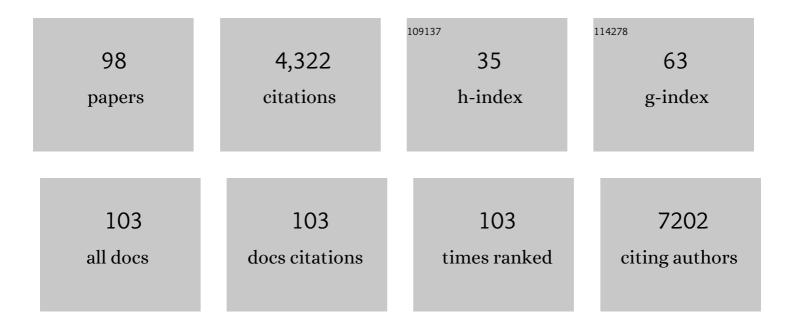
Anthony S R Chesman

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	An Alkylated Indacenodithieno[3,2â€ <i>b</i>]thiopheneâ€Based Nonfullerene Acceptor with High Crystallinity Exhibiting Single Junction Solar Cell Efficiencies Greater than 13% with Low Voltage Losses. Advanced Materials, 2018, 30, 1705209.	11.1	474
2	The Heat-Up Synthesis of Colloidal Nanocrystals. Chemistry of Materials, 2015, 27, 2246-2285.	3.2	313
3	Stabilizing the cubic perovskite phase of CsPbI ₃ nanocrystals by using an alkyl phosphinic acid. Chemical Communications, 2017, 53, 232-235.	2.2	235
4	Wafer-scale two-dimensional semiconductors from printed oxide skin of liquid metals. Nature Communications, 2017, 8, 14482.	5.8	219
5	Perovskite and Organic Solar Cells Fabricated by Inkjet Printing: Progress and Prospects. Advanced Functional Materials, 2017, 27, 1703704.	7.8	149
6	Non-injection Synthesis of Doped Zinc Oxide Plasmonic Nanocrystals. ACS Nano, 2014, 8, 9154-9163.	7.3	112
7	Sonicationâ€Assisted Synthesis of Gallium Oxide Suspensions Featuring Trap State Absorption: Test of Photochemistry. Advanced Functional Materials, 2017, 27, 1702295.	7.8	110
8	Alkylated Selenophene-Based Ladder-Type Monomers via a Facile Route for High-Performance Thin-Film Transistor Applications. Journal of the American Chemical Society, 2017, 139, 8552-8561.	6.6	105
9	Degenerately Hydrogen Doped Molybdenum Oxide Nanodisks for Ultrasensitive Plasmonic Biosensing. Advanced Functional Materials, 2018, 28, 1706006.	7.8	105
10	Cu ₂ ZnSnS _{4<i>x</i>} Se _{4(1–<i>x</i>)} Solar Cells from Polar Nanocrystal Inks. Journal of the American Chemical Society, 2014, 136, 5237-5240.	6.6	102
11	Silver Bismuth Sulfoiodide Solar Cells: Tuning Optoelectronic Properties by Sulfide Modification for Enhanced Photovoltaic Performance. Advanced Energy Materials, 2019, 9, 1803396.	10.2	100
12	Inverted perovskite solar cells with high fill-factors featuring chemical bath deposited mesoporous NiO hole transporting layers. Nano Energy, 2018, 49, 163-171.	8.2	91
13	LiTFSlâ€Free Spiroâ€OMeTADâ€Based Perovskite Solar Cells with Power Conversion Efficiencies Exceeding 19%. Advanced Energy Materials, 2019, 9, 1901519.	10.2	85
14	Visualizing Phase Segregation in Mixedâ€Halide Perovskite Single Crystals. Angewandte Chemie - International Edition, 2019, 58, 2893-2898.	7.2	77
15	The chemistry and complexes of small cyano anions. Chemical Communications, 2011, 47, 10189.	2.2	73
16	Lanthaballs: Chiral, Structurally Layered Polycarbonate Tridecanuclear Lanthanoid Clusters. Chemistry - A European Journal, 2009, 15, 5203-5207.	1.7	66
17	Dipole-field-assisted charge extraction in metal-perovskite-metal back-contact solar cells. Nature Communications, 2017, 8, 613.	5.8	66
18	Crystallisation control of drop-cast quasi-2D/3D perovskite layers for efficient solar cells. Communications Materials, 2020, 1, .	2.9	66

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19	In Situ Formation of Reactive Sulfide Precursors in the One-Pot, Multigram Synthesis of Cu ₂ ZnSnS ₄ Nanocrystals. Crystal Growth and Design, 2013, 13, 1712-1720.	1.4	57
20	Photonic Sintering of Copper through the Controlled Reduction of Printed CuO Nanocrystals. ACS Applied Materials & Interfaces, 2015, 7, 25473-25478.	4.0	57
21	Back-contacted hybrid organic–inorganic perovskite solar cells. Journal of Materials Chemistry C, 2016, 4, 3125-3130.	2.7	54
22	Controlled Growth of Monocrystalline Organo‣ead Halide Perovskite and Its Application in Photonic Devices. Angewandte Chemie - International Edition, 2017, 56, 12486-12491.	7.2	54
23	Hot-Carrier Organic Synthesis via the Near-Perfect Absorption of Light. ACS Catalysis, 2018, 8, 10331-10339.	5.5	54
24	Enhancement of the intrinsic light harvesting capacity of Cs ₂ AgBiBr ₆ double perovskite <i>via</i> modification with sulphide. Journal of Materials Chemistry A, 2020, 8, 2008-2020.	5.2	54
25	Alternating 5,5-Dimethylcyclopentadiene and Diketopyrrolopyrrole Copolymer Prepared at Room Temperature for High Performance Organic Thin-Film Transistors. Journal of the American Chemical Society, 2017, 139, 8094-8097.	6.6	49
26	Semi-transparent perovskite solar cells with a cross-linked hole transport layer. Nano Energy, 2020, 71, 104635.	8.2	49
27	Spray deposition of AgBiS ₂ and Cu ₃ BiS ₃ thin films for photovoltaic applications. Journal of Materials Chemistry C, 2018, 6, 2483-2494.	2.7	48
28	Back-contact perovskite solar cells with honeycomb-like charge collecting electrodes. Nano Energy, 2018, 50, 710-716.	8.2	44
29	Cu2ZnGeS4 Nanocrystals from Air-Stable Precursors for Sintered Thin Film Alloys. Chemistry of Materials, 2014, 26, 5482-5491.	3.2	42
30	Homoleptic 12-coordinate lanthanoids with \hat{l} -nitroso ligands. Dalton Transactions, 2007, , 1371-1373.	1.6	40
31	A Lab-to-Fab Study toward Roll-to-Roll Fabrication of Reproducible Perovskite Solar Cells under Ambient Room Conditions. Cell Reports Physical Science, 2021, 2, 100293.	2.8	39
32	Solvothermal vs. bench-top reactions: Control over the formation of discrete complexes and coordination polymers. Chemical Communications, 2007, , 3541.	2.2	38
33	Non-injection synthesis of Cu ₂ ZnSnS ₄ nanocrystals using a binary precursor and ligand approach. RSC Advances, 2013, 3, 1017-1020.	1.7	38
34	Tetradecanuclear polycarbonatolanthanoid clusters: Diverse coordination modes of carbonate providing access to novel core geometries. Dalton Transactions, 2012, 41, 10903.	1.6	37
35	Millimeterâ€5ized Clusters of Triple Cation Perovskite Enables Highly Efficient and Reproducible Rollâ€ŧoâ€Roll Fabricated Inverted Perovskite Solar Cells. Advanced Functional Materials, 2022, 32, .	7.8	36
36	Transformation of a 1D to 3D coordination polymer mediated by low temperature lattice solvent loss. Chemical Communications, 2010, 46, 4899.	2.2	35

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37	LnIII2MnIII2 heterobimetallic "butterfly―complexes displaying antiferromagnetic coupling (Ln = Eu, Gd,) Tj	ETQq1 1 1.6	. 0.78 <u>4</u> 314 rg8
38	Nucleophilic Addition of Water and Alcohols to Dicyanonitrosomethanide: Ligands with Diverse Bonding Modes in Magnetically Coupled dâ€Block Complexes. European Journal of Inorganic Chemistry, 2010, 2010, 59-73.	1.0	32
39	Effect of Grain Cluster Size on Back ontact Perovskite Solar Cells. Advanced Functional Materials, 2018, 28, 1805098.	7.8	32
40	Detection of Halomethanes Using Cesium Lead Halide Perovskite Nanocrystals. ACS Nano, 2021, 15, 1454-1464.	7.3	32
41	In situ ligand formation in the synthesis of an octanuclear dysprosium â€~double cubane' cluster displaying single molecule magnet features. Dalton Transactions, 2012, 41, 3751.	1.6	31
42	Solution-processed antireflective coating for back-contact perovskite solar cells. Optics Express, 2020, 28, 12650.	1.7	30
43	Plasmonic Ge-doped ZnO nanocrystals. Chemical Communications, 2015, 51, 12369-12372.	2.2	28
44	Transparent Quasi-Interdigitated Electrodes for Semitransparent Perovskite Back-Contact Solar Cells. ACS Applied Energy Materials, 2018, 1, 4473-4478.	2.5	27
45	Melting point suppression in new lanthanoid(iii) ionic liquids by trapping of kinetic polymorphs: an in situsynchrotron powder diffraction study. Chemical Communications, 2012, 48, 124-126.	2.2	25
46	Lanthanoidâ€Based Ionic Liquids Incorporating the Dicyanonitrosomethanide Anion. Chemistry - A European Journal, 2012, 18, 9580-9589.	1.7	25
47	Anion–Anion Interactions in the Crystal Packing of Functionalized Methanide Anions: An Experimental and Computational Study. Crystal Growth and Design, 2014, 14, 1922-1932.	1.4	25
48	Flashâ€Assisted Processing of Highly Conductive Zinc Oxide Electrodes from Water. Advanced Functional Materials, 2015, 25, 7263-7271.	7.8	25
49	Solution-Processed CuSbS ₂ Thin Films and Superstrate Solar Cells with CdS/In ₂ S ₃ Buffer Layers. ACS Applied Energy Materials, 2020, 3, 7885-7895.	2.5	25
50	New Approaches to 12â€Coordination: Structural Consequences of Steric Stress, Lanthanoid Contraction and Hydrogen Bonding. European Journal of Inorganic Chemistry, 2010, 2010, 2798-2812.	1.0	23
51	Highly Luminescent and Temperature Stable Quantum Dot Thin Films Based on a ZnS Composite. Chemistry of Materials, 2012, 24, 2117-2126.	3.2	23
52	Mimicry of Sputtered <i>i-</i> ZnO Thin Films Using Chemical Bath Deposition for Solution-Processed Solar Cells. ACS Applied Materials & amp; Interfaces, 2014, 6, 22519-22526.	4.0	23
53	Fabrication of Back-Contact Electrodes Using Modified Natural Lithography. ACS Applied Energy Materials, 2018, 1, 1077-1082.	2.5	23
54	Plasmene Metasurface Absorbers: Electromagnetic Hot Spots and Hot Carriers. ACS Photonics, 2019, 6, 314-321.	3.2	23

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55	Metalâ€Promoted Nucleophilic Addition and Cyclization of Diamines with Dicyanonitrosomethanide, [C(CN) ₂ (NO)] ^{â^'} . Chemistry - an Asian Journal, 2009, 4, 761-769.	1.7	22
56	Theoretical and Experimental Insights into the Mechanism of the Nucleophilic Addition of Water and Methanol to Dicyanonitrosomethanide. Journal of Physical Chemistry B, 2010, 114, 16517-16527.	1.2	22
57	Improving the Stability of Ambient Processed, SnO ₂ â€Based, Perovskite Solar Cells by the UVâ€Treatment of Subâ€Cells. Solar Rrl, 2020, 4, 2000262.	3.1	21
58	Aqueous Synthesis of Cu ₂ ZnSnSe ₄ Nanocrystals. Chemistry of Materials, 2019, 31, 2138-2150.	3.2	19
59	Balancing Charge Extraction for Efficient Backâ€Contact Perovskite Solar Cells by Using an Embedded Mesoscopic Architecture. Advanced Energy Materials, 2021, 11, 2100053.	10.2	19
60	Honeycomb-shaped charge collecting electrodes for dipole-assisted back-contact perovskite solar cells. Nano Energy, 2020, 67, 104223.	8.2	17
61	Solution Processable Direct Bandgap Copperâ€Silverâ€Bismuth Iodide Photovoltaics: Compositional Control of Dimensionality and Optoelectronic Properties. Advanced Energy Materials, 2022, 12, .	10.2	17
62	Solution-processed CdS thin films from a single-source precursor. Journal of Materials Chemistry C, 2014, 2, 3247-3253.	2.7	16
63	Perovskite solar cells with a hybrid electrode structure. AIP Advances, 2019, 9, 125037.	0.6	16
64	Highâ€Performance and Stable Semiâ€Transparent Perovskite Solar Cells through Composition Engineering. Advanced Science, 2022, 9, .	5.6	16
65	High-Performance Unipolar n-Type Conjugated Polymers Enabled by Highly Electron-Deficient Building Blocks Containing F and CN Groups. Macromolecules, 2022, 55, 4429-4440.	2.2	16
66	An Octanuclear Iron(III) Cluster Complex Containing the Nitroso Bridging Ligand Carbamoylcyanonitrosomethanide. Australian Journal of Chemistry, 2009, 62, 1137.	0.5	15
67	Aqueous Synthesis of High-Quality Cu ₂ ZnSnS ₄ Nanocrystals and Their Thermal Annealing Characteristics. Langmuir, 2018, 34, 1655-1665.	1.6	15
68	Self-Assembly of Plasmonic Near-Perfect Absorbers of Light: The Effect of Particle Size. Journal of Physical Chemistry Letters, 2020, 11, 8378-8385.	2.1	15
69	Synthesis and magnetic properties of a series of 3d/4f/3d heterometallic trinuclear complexes incorporating in situ ligand formation. Inorganica Chimica Acta, 2012, 389, 99-106.	1.2	13
70	Soluble Xanthate Compounds for the Solution Deposition of Metal Sulfide Thin Films. ChemPlusChem, 2015, 80, 107-118.	1.3	13
71	Multiple Roles of Cobalt Pyrazol-Pyridine Complexes in High-Performing Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2019, 10, 4675-4682.	2.1	13
72	Facile purification of CsPbX3 (X = Clâ^', Brâ^', Iâ^') perovskite nanocrystals. Journal of Chemical Physics, 2019, 151, 121105.	1.2	13

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73	Tetramethylammonium hexanitratoneodymiate(III). Structural variations of the [Nd(NO ₃) ₆] ^{3â^'} anion in a single crystal. Journal of Coordination Chemistry, 2007, 60, 2191-2196.	0.8	12
74	Synthesis and Structure of New Lanthanoid Carbonate "Lanthaballs― Inorganic Chemistry, 2015, 54, 792-800.	1.9	11
75	Precursor Route Poly(1,4-phenylenevinylene)-Based Interlayers for Perovskite Solar Cells. ACS Applied Energy Materials, 2020, 3, 889-899.	2.5	11
76	Microfluidic Processing of Ligandâ€Engineered NiO Nanoparticles for Lowâ€Temperature Holeâ€Transporting Layers in Perovskite Solar Cells. Solar Rrl, 2021, 5, 2100342.	3.1	11
77	Chains, helices, sheets and unusual 3D nets: Diverse structures of the flexible, ditopic ligand 1,2-bis(3-(4-pyridyl)pyrazolyl)ethane. Polyhedron, 2010, 29, 2-9.	1.0	10
78	Controlled Growth of Monocrystalline Organo‣ead Halide Perovskite and Its Application in Photonic Devices. Angewandte Chemie, 2017, 129, 12660-12665.	1.6	10
79	Unconventional, Gram-Scale Synthesis of a Molecular Dimer Organic Luminogen with Aggregation-Induced Emission. ACS Applied Materials & Interfaces, 2021, 13, 40441-40450.	4.0	9
80	Durable Electrooxidation of Acidic Water Catalysed by a Cobaltâ€Bismuthâ€based Oxide Composite: An Unexpected Role of the Fâ€doped SnO ₂ Substrate. ChemCatChem, 2022, 14, .	1.8	9
81	Structure and magnetism of a mixed-valence octanuclear manganese(<scp>ii</scp> / <scp>iii</scp>) cluster derived from carbamoylcyanonitrosomethanide (ccnm). Dalton Transactions, 2013, 42, 1400-1405.	1.6	8
82	Hydrogen Bonding of O-Ethylxanthate Compounds and Neutron Structural Determination of C–H···S Interactions. Australian Journal of Chemistry, 2014, 67, 1829.	0.5	8
83	Tetramethylammonium hexanitratolanthanate(III) methanol solvate. Acta Crystallographica Section E: Structure Reports Online, 2006, 62, m1942-m1943.	0.2	7
84	The formation mechanism of Janus nanostructures in one-pot reactions: the case of Ag–Ag ₈ GeS ₆ . Journal of Materials Chemistry A, 2016, 4, 7060-7070.	5.2	7
85	Non-Aqueous One-Pot SnO ₂ Nanoparticle Inks and Their Use in Printable Perovskite Solar Cells. Chemistry of Materials, 2022, 34, 5535-5545.	3.2	7
86	Cadmium tris(dithiocarbamate) ionic liquids as single source, solvent-free cadmium sulfide precursors. Chemical Communications, 2018, 54, 8925-8928.	2.2	6
87	Chemical passivation of the perovskite layer and its real-time effect on the device performance in back-contact perovskite solar cells. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2020, 38, .	0.9	6
88	Dual Photolytic Pathways in an Alloyed Plasmonic Near-Perfect Absorber: Implications for Photoelectrocatalysis. ACS Applied Nano Materials, 2021, 4, 2702-2712.	2.4	5
89	Two-Dimensional Nanoassemblies from Plasmonic Matryoshka Nanoframes. Journal of Physical Chemistry C, 2021, 125, 27753-27762.	1.5	5
90	Effect of Thionation on the Performance of PNDIT2-Based Polymer Solar Cells. Journal of Physical Chemistry C, 2019, 123, 12062-12072.	1.5	4

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91	Visualisierung der Phasensegregation in Gemischthalogenid―Perowskiteinkristallen. Angewandte Chemie, 2019, 131, 2919-2924.	1.6	4
92	Residual solvent additive enables the nanostructuring of PTB7-Th:PC71BM solar cells via soft lithography. AIP Advances, 2019, 9, .	0.6	3
93	Directing Energy into a Subwavelength Nonresonant Metasurface across the Visible Spectrum. ACS Applied Energy Materials, 2019, 2, 1155-1161.	2.5	2
94	Slot Die Coating of CIGS Nanoparticle Inks for Scalable Solution Processed Photovoltaics. , 2019, , .		1
95	Solution processing of next-generation nanocrystal solar cells. , 2013, , .		0
96	Some Products from C=O Condensations of Quinacridones. Australian Journal of Chemistry, 2021, 74, 111.	0.5	0
97	Revealing the Relationship between Design and Performance of Back-Contact Perovskite Solar Cells with Honeycomb Charge Collecting Electrode. , 0, , .		0
98	Some new 2,8-disubstituted-1,7-dicyano-3,9-diazaperylenes. Arkivoc, 2023, 2022, 24-45.	0.3	0