Anna M Makal

List of Publications by Year
in descending order

96 papers	1,699 citations	257450 24 h-index	330143 37 g-index
100 all docs	100 docs citations	100 times ranked	2058 citing authors

#	Article	IF	Citations
1	A Dormant Ruthenium Catalyst Bearing a Chelating Carboxylate Ligand: Inâ€…Situ Activation and Application in Metathesis Reactions. Angewandte Chemie - International Edition, 2007, 46, 7206-7209.	13.8	83
2	Studies on Electronic Effects in Oâ€; Nâ€•and Sâ€Chelated Ruthenium Olefinâ€Metathesis Catalysts. Chemistry - A European Journal, 2010, 16, 8726-8737.	3.3	82
3	Probing of the Ligand Anatomy: Effects of the Chelating Alkoxy Ligand Modifications on the Structure and Catalytic Activity of Ruthenium Carbene Complexes. Advanced Synthesis and Catalysis, 2007, 349, 193-203.	4.3	80
4	The Doping Effect of Fluorinated Aromatic Solvents on the Rate of Rutheniumâ€Catalysed Olefin Metathesis. Chemistry - A European Journal, 2011, 17, 12981-12993.	3.3	79
5	Continua of Interactions between Pairs of Atoms in Molecular Crystals. Chemistry - A European Journal, 2006, 12, 1941-1949.	3.3	73
6	How Dihydrolipoamide Dehydrogenase-binding Protein Binds Dihydrolipoamide Dehydrogenase in the Human Pyruvate Dehydrogenase Complex. Journal of Biological Chemistry, 2006, 281, 648-655.	3.4	64
7	Ruthenium Olefin Metathesis Initiators Bearing Chelating Sulfoxide Ligands. Organometallics, 2009, 28, 2693-2700.	2.3	63
8	Multiple Polar and Nonâ€polar Nematic Phases. ChemPhysChem, 2021, 22, 2506-2510.	2.1	62
9	Is the Hoveydaâ€“Grubbs Complex a Vinylogous Fischerâ€Type Carbene? Aromaticityâ€Controlled Activity of Ruthenium Metathesis Catalysts. Chemistry - A European Journal, 2008, 14, 9330-9337.	3.3	60
10	Restricted Photochemistry in the Molecular Solid State: Structural Changes on Photoexcitation of Cu(I) Phenanthroline Metal-to-Ligand Charge Transfer (MLCT) Complexes by Time-Resolved Diffraction. Journal of Physical Chemistry A, 2012, 116, 3359-3365.	2.5	60
11	Statistical analysis of multipole-model-derived structural parameters and charge-density properties from high-resolution X-ray diffraction experiments. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, 72-91.	0.1	46
12	Hydrogen bonding in Schiff bases â€“ NMR, structural and experimental charge density studies. Dalton Transactions, 2011, 40, 421-430.	3.3	44
13	Synthesis, Structure, and Polymerization Activity of Cyclopentadienylnickel(II) Nâ€Heterocyclic Carbene Complexes: Selective Crossâ€Metathesis in Metal Coordination Spheres. European Journal of Inorganic Chemistry, 2010, 2010, 648-656.	2.0	40
14	The development of Laue techniques for single-pulse diffraction of chemical complexes: time-resolved Laue diffraction on a binuclear rhodium metal-organic complex. Acta Crystallographica Section A: Foundations and Advances, 2011, 67, 319-326.	0.3	37
15	Experimental Charge Density Analysis of Symmetrically Substituted Ferrocene Derivatives. Inorganic Chemistry, 2010, 49, 4046-4059.	4.0	32
16	A novel manganese-doped large polyoxotitanate nanocluster. Dalton Transactions, 2014, 43, 3839-3841.	3.3	31
17	Intrinsically chiral ferronematic liquid crystals: An inversion of the helical twist sense at the chiral nematic â€“ Chiral ferronematic phase transition. Journal of Molecular Liquids, 2022, 361, 119532.	4.9	30
18	New air-stable ruthenium olefin metathesis precatalysts derived from bisphenol S. Journal of Organometallic Chemistry, 2006, 691, 5289-5297.	1.8	29

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19	Nanosized Alkali-Metal-Doped Ethoxotitanate Clusters. Inorganic Chemistry, 2013, 52, 4750-4752.	4.0	29
20	Twistâ€Bend Nematic Glasses: The Synthesis and Characterisation of Pyreneâ€based Nonsymmetric Dimers. ChemPhysChem, 2021, 22, 461-470.	2.1	29
21	A new class of pyrenyl solid-state emitters: 1-pyrenyl ynones. Synthesis via the Friedelâ€“Crafts route, molecular and electronic structure and photophysical properties. RSC Advances, 2014, 4, 31594-31601.	3.6	28
22	Time-resolved Laue diffraction of excited species at atomic resolution: 100 ps single-pulse diffraction of the excited state of the organometallic complex Rh2(Î¼-PNP)2(PNP)2Â·BPh4. Chemical Communications, 2011, 47, 1704.	4.1	26
23	Double helical structure of the twist-bend nematic phase investigated by resonant X-ray scattering at the carbon and sulfur K-edges. Soft Matter, 2018, 14, 9760-9763.	2.7	26
24	On the Biexponential Decay of the Photoluminescence of the Two Crystallographically-Independent Molecules in Crystals of [Cu(I)(phen)(PPh₃)₂][BF₄]. Journal of Physical Chemistry Letters, 2013, 4, 579-582.	4.6	25
25	DiSCaMB: a software library for aspherical atom model X-ray scattering factor calculations with CPUs and GPUs. Journal of Applied Crystallography, 2018, 51, 193-199.	4.5	24
26	Organometallic cyclic polyphenols derived from 1,2-(Î±-keto tri or tetra methylene) ferrocene show strong antiproliferative activity on hormone-independent breast cancer cells. Dalton Transactions, 2010, 39, 7444.	3.3	23
27	Hydrothermal synthesis, structural characterisation and magnetic behaviour of hybrid complexes of N-(phosphonomethyl)iminodiacetate. Journal of Molecular Structure, 2005, 754, 51-60.	3.6	21
28	Efficient synthesis of pyrene-1-carbothioamides and carboxamides. Tunable solid-state fluorescence of pyrene-1-carboxamides. RSC Advances, 2014, 4, 56003-56012.	3.6	21
29	TheLaueUtiltoolkit for Laue photocrystallography. I. Rapid orientation matrix determination for intermediate-size-unit-cell Laue data. Journal of Applied Crystallography, 2011, 44, 1182-1189.	4.5	20
30	X-ray Diffraction and Solid-State NMR Studies of a Germanium Binuclear Complex. Chemistry - A European Journal, 2006, 12, 363-375.	3.3	17
31	TheLaueUtiltoolkit for Laue photocrystallography. II. Spot finding and integration. Journal of Synchrotron Radiation, 2012, 19, 637-646.	2.4	17
32	Synthesis and inâ€…vitro Biological Evaluation of Ferrocenyl Sideâ€Chainâ€Functionalized Paclitaxel Derivatives. ChemMedChem, 2017, 12, 1882-1892.	3.2	17
33	The Impact of Crystal Packing and Aurophilic Interactions on the Luminescence Properties in Polymorphs and Solvate of Aroylacetylideâ€“Gold(I) Complexes. Chemistry - A European Journal, 2019, 25, 13131-13145.	3.3	17
34	Aerobic Palladium(II)-Catalyzed Dehydrogenative Heck Reaction in the Synthesis of Pyrenyl Fluorophores. A Photophysical Study of Î²-Pyrenyl Acrylates in Solution and in the Solid State. Journal of Organic Chemistry, 2015, 80, 2573-2581.	3.2	16
35	Aerobic Fujiwaraâ€“Moritani alkenylation and dienylation of ferrocene. Journal of Organometallic Chemistry, 2011, 696, 3499-3506.	1.8	15
36	Synthesis and evaluation of biological properties of ferrocenylâ€“podophyllotoxin conjugates. Dalton Transactions, 2017, 46, 10847-10858.	3.3	15

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37	Pyrenylpyrazole-based donor/acceptor fluorescent dyes: Synthesis and photophysical properties. Dyes and Pigments, 2018, 154, 52-61.	3.7	14
38	Crystal structure, interaction energies and experimental electron density of the popular drug ketoprophen. IUCrJ, 2018, 5, 841-853.	2.2	14
39	NMR and X-ray studies of 2,6-bis(alkylimino)phenol Schiff bases. Journal of Molecular Structure, 2007, 844-845, 94-101.	3.6	13
40	Solution-and solid-state emitters with large Stokes shifts combining pyrene and 4-hydroxythiazole fluorophores. Dyes and Pigments, 2015, 121, 290-298.	3.7	13
41	Experimental charge density of grossular under pressure â€“ a feasibility study. IUCrJ, 2020, 7, 383-392.	2.2	12
42	Metal-Dependent Cytotoxic and Kinesin Spindle Protein Inhibitory Activity of Ru, Os, Rh, and Ir Half-Sandwich Complexes of Ispinesib-Derived Ligands. Inorganic Chemistry, 2020, 59, 14879-14890.	4.0	11
43	Helical phases assembled from achiral molecules: Twist-bend nematic and helical filamentary B4 phases formed by mesogenic dimers. Journal of Molecular Liquids, 2022, 346, 118180.	4.9	11
44	Synthesis, Structure and Binding Properties of Nickel and Copper [14]Cyclidene Complexes with Appended Aza Crown Ethers. European Journal of Inorganic Chemistry, 2004, 2004, 3335-3344.	2.0	10
45	Friedelâ€“Crafts-type reaction of pyrene with diethyl 1-(isothiocyanato)alkylphosphonates. Efficient synthesis of highly fluorescent diethyl 1-(pyrene-1-carboxamido)alkylphosphonates and 1-(pyrene-1-carboxamido)methylphosphonic acid. Beilstein Journal of Organic Chemistry, 2015, 11, 2451-2458.	2.2	10
46	Triflic Acid-Promoted Adamantylation and tert-Butylation of Pyrene: Fluorescent Properties of Pyrene-Decorated Adamantanes and a Channeled Crystal Structure of 1,3,5-Tris(pyren-2-yl)adamantane. Journal of Organic Chemistry, 2020, 85, 11134-11139.	3.2	10
47	The Synthesis, Structure, and FTIR Spectroelectrochemistry of W(CO)₅ Complexes of 4â€Oxoâ€4â€(2,5â€dimethylazaferrocenâ€1â€²â€yl)butanoic and 5â€Oxoâ€5â€(2,5â€dimethylazaferrocenâ€1â€²â€yl)pentanoic Acid. European Journal of Inorganic Chemistry, 2009, 2009, 4069-4077.	2.6	9
48	Ferroceneâ€“Biotin Conjugates: Synthesis, Structure, Cytotoxic Activity and Interaction with Avidin. ChemPlusChem, 2016, 81, 1191-1201.	2.8	9
49	Directed lithiation of a pyrene-1-carboxamide as a route to new pyrenyl fluorophores. Dyes and Pigments, 2016, 125, 331-338.	3.7	9
50	Polycyclic Aromatic N-Ethoxycarbonyl Thioamide S-Oxides and Their Triflic Acid Promoted Cyclization to Fluorescent Thiophene Imine-Fused Arenes. Journal of Organic Chemistry, 2018, 83, 1933-1939.	3.2	9
51	Electronic and molecular structures and bulk secondâ€“order nonlinear optical properties of ferrocenyl ynones. RSC Advances, 2012, 2, 3512.	3.6	8
52	A priori checking of the light-response and data quality before extended data collection in pumpâ€“probe photocrystallography experiments. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2017, 73, 23-26.	1.1	7
53	Functionalization of the â€œBay Regionâ€• of Perylene in Reaction with 1-Arylalk-2-yn-1-ones Catalyzed by Trifluoromethanesulfonic Acid: One-Step Approach to 1-Acyl-2-alkylbenzo[ghi]perylenes. Journal of Organic Chemistry, 2018, 83, 14165-14174.	3.2	7
54	Polymorphism and resulting luminescence properties of 1-acetylpyrene. CrystEngComm, 2019, 21, 5845-5852.	2.6	7

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55	Structure and piezochromism of pyrene-1-carbaldehyde at high pressure. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2019, 75, 343-353.	1.1	7
56	Unusual diastereoselective reduction of 2-propionyl-3,3â€²,4,4â€²-tetramethyl-1,1â€²-diphosphaferrocene to the corresponding alcohol by BH3Â·Me2S. X-Ray diffraction and DFT study. New Journal of Chemistry, 2009, 33, 807.	2.8	6
57	Synthesis, regioselective aerobic Pd(ii)-catalyzed Câ€“H bond alkenylation and the photophysical properties of pyrenylphenylpyrazoles. Photochemical and Photobiological Sciences, 2016, 15, 580-588.	2.9	6
58	Regioselective (thio)carbamoylation of 2,7-di-tert-butylpyrene at the 1-position with iso(thio)cyanates. Beilstein Journal of Organic Chemistry, 2017, 13, 1032-1038.	2.2	6
59	Multiâ€Directional Mechanofluorochromism of Acetyl Pyrenes and Pyrenyl Ynones. ChemPhysChem, 2021, 22, 1638-1644.	2.1	6
60	Three new polymorphs of 1,8-diacetylpyrene: a material with packing-dependent luminescence properties and a testbed for crystal structure prediction. Journal of Materials Chemistry C, 2021, 9, 2491-2503.	5.5	6
61	Impact of the ferrocenyl group on cytotoxicity and KSP inhibitory activity of ferrocenyl monastrol conjugates. Dalton Transactions, 2022, 51, 491-508.	3.3	6
62	[Co(H2O)6]{[Co(C4H4N2)(H2O)2][V2O2(pmida)2]}Â·2H2O [H4pmida isN-(phosphonomethyl)iminodiacetic acid]: the first two-dimensional hybrid framework containing [V2O2(pmida)2]4â^'building blocks. Acta Crystallographica Section E: Structure Reports Online, 2005, 61, m1628-m1632.	0.2	5
63	Magnetic phase transitions in ScFe4Al8by powder and single crystal neutron diffraction. Phase Transitions, 2007, 80, 575-586.	1.3	5
64	Synthesis and study of new liquid crystalline compounds with an epoxy group. Liquid Crystals, 2009, 36, 67-73.	2.2	5
65	(Arâ€“COâ€“Cî€,C)(PEt₃)Au and (Arâ€“Cî€,C)(PEt₃)Au complexes bearing pyrenyl and ferrocenyl groups: synthesis, structure, and luminescence properties. Dalton Transactions, 2018, 47, 6702-6712.	3.3	5
66	Crystal morphology fixed by interplay of Ï€-stacking and hydrogen bonds â€“ the case of 1-hydroxypyrene. CrystEngComm, 2019, 21, 1701-1717.	2.6	5
67	The bis(trifluoroacetate) analogue of the first-generation Grubbs catalyst: Synthesis, X-ray structure, and metathesis activity of [Ru(CF3CO2)(Î·2-CF3CO2)(CHPh)(PCy3)2]. Journal of Organometallic Chemistry, 2009, 694, 3179-3183.	1.8	4
68	Pyrene fluorophores bearing two carbonyl groups in 1,2- positions: Synthesis and photophysical properties of pyrene-1,2-dicarboximides and a pyrene-1,2-dicarboxamide. Journal of Photochemistry and Photobiology A: Chemistry, 2016, 330, 15-21.	3.9	4
69	An insight into real and average structure from diffuse X-ray scattering â€“ a case study. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2016, 72, 571-583.	1.1	4
70	Doxycycline hydrate and doxycycline hydrochloride dihydrate â€“ crystal structure and charge density analysis. Zeitschrift Fur Kristallographie - Crystalline Materials, 2018, 233, 649-661.	0.8	4
71	Pressure-Dependent Structural and Luminescence Properties of 1-(Pyren-1-yl)but-2-yn-1-one. Molecules, 2019, 24, 1107.	3.8	4
72	Maximizing completeness in single-crystal high-pressure diffraction experiments: phase transitions in 2Â°AP. IUCrJ, 2021, 8, 1006-1017.	2.2	4

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73	Synthesis and unusual ring transformation of 1-acyl-3-(ferrocenylmethylidene)-piperazine-2,5-diones. Journal of Organometallic Chemistry, 2013, 745-746, 373-378.	1.8	3
74	Triethylphosphine as a molecular gear â€" phase transitions in ferrocenylâ€"acetylideâ€"gold(I). Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2018, 74, 427-435.	1.1	3
75	Differences and similarities among hypoxanthinium nitrate hydrate structures. Acta Crystallographica Section C, Structural Chemistry, 2019, 75, 1036-1044.	0.5	3
76	Experimental charge density of ferrocenyl derivative of Î²-lactam. Journal of Molecular Structure, 2020, 1217, 128274.	3.6	3
77	Direct Synthesis of Peryleneâ€Fused Cyclic Ketones from Perylene and 2â€Alkenoic Acids. European Journal of Organic Chemistry, 2016, 2016, 4215-4223.	2.4	2
78	Properties and separation method of enantiomers of the mono- and bis-substituted derivatives of 3,3â€²,4,4â€²-tetramethyl-1,1â€²-diphosphaferrocene: structural analysis using X-ray diffraction and circular dichroism. Tetrahedron: Asymmetry, 2017, 28, 135-145.	1.8	2
79	Alkylation of the K-Region in a Sterically Hindered Pyrene Carboxamide via Directed Reaction with Alkyllithiums under Air. Journal of Organic Chemistry, 2018, 83, 12793-12797.	3.2	1
80	Speeding up accurate scattering factors calculation for macromolecules. Algorithms for aspherical atom formalism and direct summation. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, s523-s523.	0.1	0
81	Ultra-high resolution data for charge densities studies. Acta Crystallographica Section A: Foundations and Advances, 2005, 61, c423-c423.	0.3	0
82	Additional ligand in the Ru coordination sphere - the Hoveyda-type catalysts. Acta Crystallographica Section A: Foundations and Advances, 2010, 66, s269-s269.	0.3	0
83	Single-pulse Laue TR diffraction: methods, results and use of QM/MM theory. Acta Crystallographica Section A: Foundations and Advances, 2011, 67, C108-C109.	0.3	0
84	Additional ligand in the Ru coordination sphere of Hoveyda-type catalysts. Part II. Acta Crystallographica Section A: Foundations and Advances, 2011, 67, C429-C430.	0.3	0
85	Experimental charge density analysis for doxycycline. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, s409-s410.	0.1	0
86	Reinvestigation of hypoxanthinium nitrate monohydrate structure. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, C765-C765.	0.1	0
87	Crystal structure and reconstruction of charge density of 9-aminoacridine hemihydrate. Acta Crystallographica Section A: Foundations and Advances, 2018, 74, e298-e299.	0.1	0
88	High-pressure pair distribution function study of amorphous silica in helium. Acta Crystallographica Section A: Foundations and Advances, 2018, 74, e279-e279.	0.1	0
89	Crystal structure and spectroscopic properties of 1-(pyren-1-yl)but-2-yn-1-one under pressure. Acta Crystallographica Section A: Foundations and Advances, 2018, 74, e280-e280.	0.1	0
90	Successful experimental quantitative charge-density feasibility study of grossular under high pressure. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, a188-a188.	0.1	0

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91	Examination of the intermolecular aurophilic interactions in the crystals of the (ArCOC=C)(PEt3)Au and [(ArCOC=C)2Au]â€“[Au(PEt3)2]+ complexes. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, e504-e504.	0.1	0
92	Triethylphosphine as a molecular gear â€“ phase transitions in ferrocenylâ€“acetylideâ€“gold(I). Acta Crystallographica Section A: Foundations and Advances, 2019, 75, e473-e473.	0.1	0
93	Experimental charge-density distribution in grossular under high pressure â€“ a feasibility study. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, e260-e260.	0.1	0
94	Filling the gaps: what new polymorphs of acetylpyrene tell us about the fluorescence of pyrene derivatives. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, e576-e576.	0.1	0
95	Highly Fluorescent Dyes Containing Conformationally Restrained Pyrazolylpyrene (Pyrazoolympicene) Chromophore. Molecules, 2022, 27, 1272.	3.8	0
96	Electrophile-Dependent Reactivity of Lithiated N-Benzylpyrene-1-Carboxamide. Molecules, 2022, 27, 3930.	3.8	0