Philip Coppens

List of Publications by Year
in descending order

162 papers	9,685 citations	26567 56 h-index	43802 91 g-index
165 all docs	165 docs citations	165 times ranked	5580 citing authors

#	Article	IF	Citations
1	Chemical Applications of X-ray Charge-Density Analysis. Chemical Reviews, 2001, 101, 1583-1628.	23.0	677
2	X-Ray Charge Densities and Chemical Bonding. , 1997, , .		532
3	Photoinduced Linkage Isomers of Transition-Metal Nitrosyl Compounds and Related Complexes. Chemical Reviews, 2002, 102, 861-884.	23.0	411
4	MLCT State Structure and Dynamics of a Copper(I) Diimine Complex Characterized by Pumpâ˜Probe X-ray and Laser Spectroscopies and DFT Calculations. Journal of the American Chemical Society, 2003, 125, 7022-7034.	6.6	313
5	Crystallography and Properties of Polyoxotitanate Nanoclusters. Chemical Reviews, 2014, 114, 9645-9661.	23.0	256
6	X-ray analysis of the incommensurate modulation in the 2:2:1:2 Bi-Sr-Ca-Cu-O superconductor including the oxygen atoms. Physical Review B, 1990, 42, 387-392.	1.1	185
7	Theoretical Analysis of the Triplet Excited State of the [Pt2(H2P2O5)4]4-Ion and Comparison with Time-Resolved X-ray and Spectroscopic Results. Journal of the American Chemical Society, 2003, 125, 1079-1087.	6.6	174
8	Evaluation of net atomic charges and atomic and molecular electrostatic moments through topological analysis of the experimental charge density. Acta Crystallographica Section A: Foundations and Advances, 2000, 56, 252-258.	0.3	170
9	Excited-state structure by time-resolved X-ray diffraction. Acta Crystallographica Section A: Foundations and Advances, 2002, 58, 133-137.	0.3	166
10	Ab Initio Quality Electrostatic Atomic and Molecular Properties Including Intermolecular Energies from a Transferable Theoretical Pseudoatom Databank. Journal of Physical Chemistry A, 2004, 108, 4283-4300.	1.1	164
11	On the origin of topological differences between experimental and theoretical crystal charge densities. Acta Crystallographica Section A: Foundations and Advances, 2000, 56, 332-339.	0.3	157
12	The Crystalline Nanocluster Phase as a Medium for Structural and Spectroscopic Studies of Light Absorption of Photosensitizer Dyes on Semiconductor Surfaces. Journal of the American Chemical Society, 2010, 132, 2938-2944.	6.6	153
13	A Theoretical Databank of Transferable Aspherical Atoms and Its Application to Electrostatic Interaction Energy Calculations of Macromolecules. Journal of Chemical Theory and Computation, 2007, 3, 232-247.	2.3	134
14	Analysis of a metastable electronic excited state of sodium nitroprusside by X-ray crystallography. Journal of the American Chemical Society, 1994, 116, 5233-5238.	6.6	130
15	Binding Modes of Carboxylate- and Acetylacetonate-Linked Chromophores to Homodisperse Polyoxotitanate Nanoclusters. Journal of the American Chemical Society, 2012, 134, 11695-11700.	6.6	129
16	Capturing and Analyzing the Excited-State Structure of a Cu(I) Phenanthroline Complex by Time-Resolved Diffraction and Theoretical Calculations. Journal of the American Chemical Society, 2009, 131, 6566-6573.	6.6	123
17	Large Polyoxotitanate Clusters: Well-Defined Models for Pure-Phase TiO₂ Structures and Surfaces. Journal of the American Chemical Society, 2010, 132, 13669-13671.	6.6	117
18	The First Photocrystallographic Evidence for Light-Induced Metastable Linkage Isomers of Ruthenium Sulfur Dioxide Complexes. Journal of the American Chemical Society, 2002, 124, 9241-9248.	6.6	116

#	Article	IF	Citations
19	Novel structural modulation in the ambient-pressure sulfur-based organic superconductor .beta.-(BEDT-TTF)2I3: origin and effects on its electrical conductivity. Journal of the American Chemical Society, 1985, 107, 6184-6191.	6.6	115
20	Aspherical-atom scattering factors from molecular wave functions. 1. Transferability and conformation dependence of atomic electron densities of peptides within the multipole formalism. Acta Crystallographica Section A: Foundations and Advances, 2002, 58, 464-472.	0.3	112
21	Charge Densities Come of Age. Angewandte Chemie - International Edition, 2005, 44, 6810-6811.	7.2	110
22	Combination of the exact potential and multipole methods (EP/MM) for evaluation of intermolecular electrostatic interaction energies with pseudoatom representation of molecular electron densities. Chemical Physics Letters, 2004, 391, 170-175.	1.2	106
23	Light-Induced Metastable Linkage Isomers of Ruthenium Sulfur Dioxide Complexes. Inorganic Chemistry, 2003, 42, 140-147.	1.9	105
24	Experimental Charge Densities and Intermolecular Interactions:Â Electrostatic and Topological Analysis ofdl-Histidine. Journal of the American Chemical Society, 1999, 121, 2585-2593.	6.6	104
25	Density-optimized radial exponents for X-ray charge-density refinement fromab initiocrystal calculations. Acta Crystallographica Section A: Foundations and Advances, 2001, 57, 272-282.	0.3	104
26	Crystallography of molecular excited states. Transition-metal nitrosyl complexes and the study of transient species. Journal of the Chemical Society Dalton Transactions, 1998, , 865-872.	1.1	99
27	Six questions on topology in theoretical chemistry. Computational and Theoretical Chemistry, 2015, 1053, 2-16.	1.1	99
28	Shedding Light on the Structure of a Photoinduced Transient Excimer by Time-Resolved Diffraction. Physical Review Letters, 2005, 94, 193003.	2.9	96
29	The First Crystallographic Evidence for Side-On Coordination of N2 to a Single Metal Center in a Photoinduced Metastable State. Journal of the American Chemical Society, 2000, 122, 532-533.	6.6	92
30	Accurate X-Ray Diffraction and Quantum Chemistry: The Study of Charge Density Distributions. Advances in Quantum Chemistry, 1977, 10, 1-35.	0.4	91
31	The structure of short-lived excited states of molecular complexes by time-resolved X-ray diffraction. Acta Crystallographica Section A: Foundations and Advances, 2005, 61, 162-172.	0.3	89
32	Combined X-ray Diffraction and Density Functional Study of [Ni(NO)(Î·5-Cp*)] in the Ground and Light-Induced Metastable States. Inorganic Chemistry, 1998, 37, 1519-1526.	1.9	87
33	Calculation of electrostatic interaction energies in molecular dimers from atomic multipole moments obtained by different methods of electron density partitioning. Journal of Computational Chemistry, 2004, 25, 921-934.	1.5	87
34	Direct Evaluation of the Charge Transfer in the Tetrathiafulvalene-Tetracyanoquinodimethane (TTF-TCNQ) Complex at 100Â°K by Numerical Integration of X-Ray Diffraction Amplitudes. Physical Review Letters, 1975, 35, 98-100.	2.9	86
35	Kinetics of the Single-Crystal to Single-Crystal Two-Photon Photodimerization of Î±-trans-Cinnamic Acid to Î±-Truxillic Acid. Journal of Physical Chemistry A, 2009, 113, 3116-3120.	1.1	85
36	The temperature dependence of the crystal and molecular structure of .DELTA.2,2'-bi-1,3-dithiole [TTF] 7,7,8,8-tetracyano-p-quinodimethane [TCNQ]. Journal of the American Chemical Society, 1976, 98, 3194-3201.	6.6	84

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37	Critical examination of the radial functions in the Hansenâ€“Coppens multipole model through topological analysis of primary and refined theoretical densities. Acta Crystallographica Section A: Foundations and Advances, 2001, 57, 395-405.	0.3	84
38	Synthesis and Structure of Multicomponent Crystals of Fullerenes and Metal Tetraarylporphyrins. Inorganic Chemistry, 2002, 41, 3638-3646.	1.9	84
39	Ultrafast spin-state photoswitching in a crystal and slower consecutive processes investigated by femtosecond optical spectroscopy and picosecond X-ray diffraction. Physical Chemistry Chemical Physics, 2012, 14, 6192.	1.3	79
40	X-ray Diffraction Analysis of Geometry Changes upon Excitation:Â The Ground-State and Metastable-State Structures of K2[Ru(NO2)4(OH)(NO)]. Inorganic Chemistry, 1996, 35, 7021-7026.	1.9	78
41	Geometry Changes of a Cu(I) Phenanthroline Complex on Photoexcitation in a Confining Medium by Time-Resolved X-ray Diffraction. Journal of the American Chemical Society, 2004, 126, 5980-5981.	6.6	77
42	First Observation of Photoinduced Nitrosyl Linkage Isomers of Iron Nitrosyl Porphyrins. Journal of the American Chemical Society, 2000, 122, 7142-7143.	6.6	75
43	Experimental Electron Densities and Chemical Bonding. Angewandte Chemie International Edition in English, 1977, 16, 32-40.	4.4	74
44	Experimental and Density Functional Theoretical Investigations of Linkage Isomerism in Six-Coordinate {FeNO}6Iron Porphyrins with Axial Nitrosyl and Nitro Ligands. Journal of the American Chemical Society, 2006, 128, 2093-2104.	6.6	74
45	Solid-State Structure Dependence of the Molecular Distortion and Spectroscopic Properties of the Cu(I) Bis(2,9-dimethyl-1,10-phenanthroline) Ion. Inorganic Chemistry, 2003, 42, 8794-8802.	1.9	73
46	Interfacial Electron Transfer into Functionalized Crystalline Polyoxotitanate Nanoclusters. Journal of the American Chemical Society, 2012, 134, 8911-8917.	6.6	72
47	Photoinduced Oxygen Transfer and Double-Linkage Isomerism in acis-(NO)(NO2) Transition-Metal Complex by Photocrystallography, FT-IR Spectroscopy and DFT Calculations. Chemistry - A European Journal, 2005, 11, 7254-7264.	1.7	71
48	Trinuclear Gold(I) Triazolates:Â A New Class of Wide-Band Phosphors and Sensors. Inorganic Chemistry, 2006, 45, 6592-6594.	1.9	70
49	The interplay between experiment and theory in charge-density analysis. Acta Crystallographica Section A: Foundations and Advances, 2004, 60, 357-364.	0.3	69
50	Photoelectrochemical Hole Injection Revealed in Polyoxotitanate Nanocrystals Functionalized with Organic Adsorbates. Journal of the American Chemical Society, 2014, 136, 16420-16429.	6.6	67
51	A very large Rhâ€“Rh bond shortening on excitation of the [Rh2(1,8-diisocyano-p-menthane)4]2+ion by time-resolved synchrotron X-ray diffraction. Chemical Communications, 2004, , 2144-2145.	2.2	66
52	Experimental, Hartreeâ^'Fock, and Density Functional Theory Investigations of the Charge Density, Dipole Moment, Electrostatic Potential, and Electric Field Gradients inl-Asparagine Monohydrate. Journal of the American Chemical Society, 2000, 122, 4708-4717.	6.6	65
53	The use of synchrotron radiation in X-ray charge density analysis of coordination complexes. Coordination Chemistry Reviews, 2005, 249, 179-195.	9.5	63
54	Improving the scattering-factor formalism in protein refinement: application of the University at Buffalo Aspherical-Atom Databank to polypeptide structures. Acta Crystallographica Section D: Biological Crystallography, 2007, 63, 160-170.	2.5	63

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55	Valence electron distribution in perdeuterio-.alpha.-glycylglycine. High-resolution study of the peptide bond. Journal of the American Chemical Society, 1975, 97, 3496-3505.	6.6	60
56	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.	1.1	60
57	What can time-resolved diffraction tell us about transient species?: excited-state structure determination at atomic resolution. Chemical Communications, 2003, , 1317-1320.	2.2	59
58	Experimentelle Elektronendichten und chemische Bindung. Angewandte Chemie, 1977, 89, 33-42.	1.6	57
59	Use of X-ray Charge Densities in the Calculation of Intermolecular Interactions and Lattice Energies:Â Application to Glycylglycine,dl-Histidine, anddl-Proline and Comparison with Theory. Journal of Physical Chemistry B, 2000, 104, 2183-2188.	1.2	57
60	Electron density studies of porphyrins and phthalocyanines. III. The electronic ground state of iron(II) phthalocyanine. Journal of Chemical Physics, 1984, 81, 1983-1993.	1.2	56
61	Electron population analysis of accurate diffraction data. II. Application of one-center formalisms to some organic and inorganic molecules. Journal of the American Chemical Society, 1971, 93, 1051-1058.	6.6	54
62	[60]Fullerene Complexes with Supramolecular Zinc Tetraphenylporphyrin Assemblies:â€‰ Synthesis, Crystal Structures, and Optical Properties. Crystal Growth and Design, 2005, 5, 1807-1819.	1.4	53
63	Photo-Induced Linkage Isomerism of Transition Metal Nitrosyl and Dinitrogen Complexes Studied by Photocrystallographic Techniques. Tetrahedron, 2000, 56, 6813-6820.	1.0	51
64	Photo-induced metastable linkage isomers of ruthenium nitrosyl porphyrins. Chemical Communications, 1999, , 2013-2014.	2.2	50
65	Structural Variation and Supramolecular Isomerism in the C-Methylcalix[4]resorcinarene/Bipyridine System. Crystal Growth and Design, 2002, 2, 7-13.	1.4	48
66	Cu(I)(2,9-Bis(trifluoromethyl)-1,10-phenanthroline)2+Complexes:Â Correlation between Solid-State Structure and Photoluminescent Properties. Inorganic Chemistry, 2004, 43, 8282-8289.	1.9	48
67	Multiple Structures in Supramolecular Solids:â€‰ Benzophenone Embedded in Three Different C-Methylcalix[4]resorcinarene/bipyridine Frameworks. Crystal Growth and Design, 2001, 1, 271-275.	1.4	47
68	Single- and Double-Linkage Isomerism in a Six-Coordinate Iron Porphyrin Containing Nitrosyl and Nitro Ligands. Journal of the American Chemical Society, 2004, 126, 7180-7181.	6.6	47
69	A fast mechanical shutter for submicrosecond time-resolved synchrotron experiments. Journal of Synchrotron Radiation, 2005, 12, 665-669.	1.0	46
70	The RATIO method for time-resolved Laue crystallography. Journal of Synchrotron Radiation, 2009, 16, 226-230.	1.0	45
71	Charge Density Analysis of the (Câ^'C)â‡'Ti Agostic Interactions in a Titanacyclobutane Complex. Journal of the American Chemical Society, 2009, 131, 6154-6160.	6.6	43
72	Combining crystallographic information and an aspherical-atom data bank in the evaluation of the electrostatic interaction energy in an enzymeâ€“substrate complex: influenza neuraminidase inhibition. Acta Crystallographica Section D: Biological Crystallography, 2009, 65, 485-499.	2.5	42

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73	Time-resolved synchrotron diffraction and theoretical studies of very short-lived photo-induced molecular species. Acta Crystallographica Section A: Foundations and Advances, 2010, 66, 179-188.	0.3	42
74	Does C-methylcalix[4]resorcinarene always adopt the crown shape conformation? A resorcinarene/bipyridine/decamethylruthenocene supramolecular clathrate with a novel framework structure. Chemical Communications, 2000, , 2299-2300.	2.2	41
75	Variable Conformation of Benzophenone in a Series of Resorcinarene-Based Supramolecular Frameworks. Crystal Growth and Design, 2004, 4, 1377-1385.	1.4	40
76	Effect of the Environment on Molecular Properties:â€‰ Synthesis, Structure, and Photoluminescence of Cu(I) Bis(2,9-dimethyl-1,10-phenanthroline) Nanoclusters in Eight Different Supramolecular Frameworks. Inorganic Chemistry, 2006, 45, 9281-9289.	1.9	39
77	How Does Substitutional Doping Affect Visible Light Absorption in a Series of Homodisperse Ti₁₁ Polyoxotitanate Nanoparticles?. Chemistry - A European Journal, 2015, 21, 11538-11544.	1.7	39
78	On the Photochemical Behavior of the [Ru(NH3)4(NO)nicotinamide]3+Cation and the Relative Stability of Light-Induced Metastable Isonitrosyl Isomers of Ru Complexes. Inorganic Chemistry, 2000, 39, 5791-5795.	1.9	38
79	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
80	Dependence of the Intermolecular Electrostatic Interaction Energy on the Level of Theory and the Basis Set. Journal of Chemical Theory and Computation, 2006, 2, 81-89.	2.3	36
81	Molecular Excited-State Structure by Time-Resolved Pumpâ”Probe X-ray Diffraction. What Is New and What Are the Prospects for Further Progress?. Journal of Physical Chemistry Letters, 2011, 2, 616-621.	2.1	36
82	Relating structure and photoelectrochemical properties: electron injection by structurally and theoretically characterized transition metal-doped phenanthrolineâ€“polyoxotitanate nanoparticles. Physical Chemistry Chemical Physics, 2014, 16, 15792-15795.	1.3	35
83	On the refinement of time-resolved diffraction data: comparison of the random-distribution and cluster-formation models and analysis of the light-induced increase in the atomic displacement parameters. Journal of Synchrotron Radiation, 2005, 12, 488-493.	1.0	34
84	The New Photocrystallography. Angewandte Chemie - International Edition, 2009, 48, 4280-4281.	7.2	34
85	Direct Observation of the Binding Mode of the Phosphonate Anchor to Nanosized Polyoxotitanate Clusters. Chemistry - A European Journal, 2013, 19, 16651-16655.	1.7	34
86	Crystal engineering, solid state spectroscopy and time-resolved diffraction. CrystEngComm, 2002, 4, 302-309.	1.3	32
87	Finding optimal radial-function parameters for SÂatoms in the Hansenâ€“Coppens multipole model through refinement of theoretical densities. Acta Crystallographica Section A: Foundations and Advances, 2006, 62, 224-227.	0.3	32
88	Supramolecular solids and time-resolved diffraction. CrystEngComm, 2006, 8, 735.	1.3	31
89	Interaction energies between glycopeptide antibiotics and substrates in complexes determined by X-ray crystallography: application of a theoretical databank of aspherical atoms and a symmetry-adapted perturbation theory-based set of interatomic potentials. Acta Crystallographica Section D: Biological Crystallography, 2006, 62, 639-647.	2.5	31
90	A novel manganese-doped large polyoxotitanate nanocluster. Dalton Transactions, 2014, 43, 3839-3841.	1.6	31

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91	Instrumentation for photocrystallographic experiments of transient species. Journal of Synchrotron Radiation, 2000, 7, 229-235.	1.0	30
92	A modified Pinkerton-type helium gas-flow system for high-accuracy data collection at the X3 SUNY synchrotron beamline at NSLS. Journal of Applied Crystallography, 2001, 34, 76-79.	1.9	30
93	Luminescence Quenching and Energy Transfer in Supramolecular Solidsâ€. Crystal Growth and Design, 2005, 5, 2050-2059.	1.4	29
94	Nanosized Alkali-Metal-Doped Ethoxotitanate Clusters. Inorganic Chemistry, 2013, 52, 4750-4752.	1.9	29
95	The Nature of the Ag^Iâ‹…â‹…â‹…Ag^IInteraction in Different Ag(NH₃)₂Dimers Embedded in Supramolecular Solids. Chemistry - A European Journal, 2007, 13, 8583-8590.	1.7	28
96	Shedding Light on the Photochemistry of Coinage-Metal Phosphorescent Materials: A Time-Resolved Laue Diffraction Study of an Ag^Iâ€“Cu^I Tetranuclear Complex. Inorganic Chemistry, 2014, 53, 10594-10601.	1.9	27
97	Ligand-unsupported Au(i) chains with short Au(i)â‹¯Au(i) contacts. Chemical Communications, 2006, , 3711-3713.	2.2	26
98	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.	2.2	26
99	Response to the paperA comparison between experimental and theoretical aspherical-atom scattering factors for charge-density refinement of large molecules, by Pichon-Pesme, Jelsch, Guillot & Lecomte (2004). Acta Crystallographica Section A: Foundations and Advances, 2004, 60, 638-639.	0.3	25
100	LASERâ€“ a program for response-ratio refinement of time-resolved diffraction data. Journal of Applied Crystallography, 2010, 43, 1129-1130.	1.9	25
101	Constrained Excited-State Structure in Molecular Crystals by Means of the QM/MM Approach: Toward the Prediction of Photocrystallographic Results. Journal of Physical Chemistry Letters, 2010, 1, 2349-2353.	2.1	25
102	A Large Manganeseâ€doped Polyoxotitanate Nanocluster: Ti₁₄MnO₁₄(OH)₂(OEt)₂₈. Journal of the Chinese Chemical Society, 2013, 60, 887-890.	0.8	25
103	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.	2.1	25
104	Syntheses, Structures, Photoluminescence and Theoretical Studies of Xanthone in Crystalline Resorcinarene-Based Inclusion Complexes. Chemistry - A European Journal, 2005, 11, 3583-3590.	1.7	24
105	Synchrotron-radiation study of the five-dimensional modulated phase of tetrathiafulvalene-tetracyanoquinodimethane (TTF-TCNQ) at 15 K. Physical Review Letters, 1987, 59, 1695-1697.	2.9	23
106	Introductory Lecture. Faraday Discussions, 2003, 122, 1-12.	1.6	23
107	Novel Low Temperature Modulated Structure of the Ambient Pressure Superconductor (BEDT-TTF)2I3 and a Design Strategy for New Superconducting Polyhalide Phases. Molecular Crystals and Liquid Crystals, 1985, 119, 347-355.	0.9	21
108	Application of charge density methods to a protein model compound: Calculation of Coulombic intermolecular interaction energies from the experimental charge density. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 12132-12137.	3.3	21

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109	Synthesis, crystal structure and photoconductivity of the first [60]fullerene complex with metal diethyldithiocarbamate: {CuII(dedtc)2}2Â·C60. Dalton Transactions, 2005, , 1821.	1.6	20
110	Emission quenching of photoactive molecules embedded in supramolecular solids: Synthesis, structure and photoluminescence studies of benzil in a CMCR-based inclusion complex with a saturated linker molecule. CrystEngComm, 2005, 7, 289.	1.3	20
111	Static and time-resolved photocrystallographic studies in supramolecular solids. Zeitschrift Fur Kristallographie - Crystalline Materials, 2008, 223, 265-271.	0.4	20
112	Electrochemical insertion of lithium into the Bi2Sr2CaCu2O8+y high-Tc superconductor. Physica C: Superconductivity and Its Applications, 1992, 190, 367-378.	0.6	19
113	Time-resolved diffraction in chemistry and materials science: The developing field of photocrystallography. Synchrotron Radiation News, 1997, 10, 26-30.	0.2	19
114	Light-Induced Metastable Linkage Isomers of Transition Metal Nitrosyls. Comments on Inorganic Chemistry, 1999, 21, 131-148.	3.0	19
115	VIII. What Systems Can Be Studied, Have Been Studied, and Should Be Studied?. Israel Journal of Chemistry, 1977, 16, 144-148.	1.0	18
116	On the assessment of time-resolved diffraction results. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, 291-299.	0.0	18
117	TheLaueUtiltoolkit for Laue photocrystallography. II. Spot finding and integration. Journal of Synchrotron Radiation, 2012, 19, 637-646.	1.0	17
118	A manganese-doped polymeric framework of polyoxotitanate nanoclusters with a narrow band gap. Dalton Transactions, 2013, 42, 15285.	1.6	17
119	New methods in time-resolved Laue pumpâ€“probe crystallography at synchrotron sources. Journal of Synchrotron Radiation, 2015, 22, 280-287.	1.0	16
120	X-ray charge density study ofp-amino-pâ€²-nitrobiphenyl at 20â€…K using a CCD area detector and synchrotron radiation: a very large dipole moment enhancement in the solid state. Journal of Synchrotron Radiation, 1999, 6, 1007-1015.	1.0	15
121	Symmetry Mismatching as a Tool in the Synthesis of Complex Supramolecular Solids with Multiple Cavities. Crystal Growth and Design, 2004, 4, 211-213.	1.4	15
122	XII. The Combination of Aspherical‐Atom Least‐Squares Refinements with Fourier Methods in the Study of Electron Distributions. Israel Journal of Chemistry, 1977, 16, 163-167.	1.0	14
123	Application of the selective atom diffraction method to the cation distribution in high Tc bismuth cuprates. Journal of Physics and Chemistry of Solids, 1991, 52, 1267-1272.	1.9	14
124	Hot Hole Hopping in a Polyoxotitanate Cluster Terminated with Catechol Electron Donors. Journal of Physical Chemistry C, 2016, 120, 20006-20015.	1.5	14
125	The chair conformation of C-methylcalix[4]resorcinarene in a novel, stepped, supramolecular framework. CrystEngComm, 2001, 3, 78.	1.3	13
126	Synthesis and crystal structure of a new supramolecular complex: [(ZnTPP)2Prz]Â·C60Â·5.34C7H8Â·0.66C6H5CN. CrystEngComm, 2003, 5, 137-139.	1.3	13

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127	DFT calculations of light-induced excited states and comparison with time-resolved crystallographic results. International Journal of Quantum Chemistry, 2005, 101, 611-623.	1.0	13
128	OnRfactors for dynamic structure crystallography. Acta Crystallographica Section A: Foundations and Advances, 2010, 66, 626-628.	0.3	13
129	Optimizing the accuracy and precision of the single-pulse Laue technique for synchrotron photo-crystallography. Journal of Synchrotron Radiation, 2010, 17, 479-485.	1.0	13
130	The dramatic development of X-ray photocrystallography over the past six decades. Structural Dynamics, 2017, 4, 032102.	0.9	13
131	Synthesis, Crystal Structure, and Optical Properties of a New Molecular Complex of C60 with a Covalently Linked (FeIIITPP)2O Dimer. European Journal of Inorganic Chemistry, 2003, 2003, 3914-3917.	1.0	12
132	Two novel bis(2,9-dimethyl-1,10-phenanthroline)copper(I) complexes: [Cu(dmp)2]2(PF6)2Â·0.5(bpmh)Â·CH3CN and [Cu(dmp)2][N(CN)2]. Acta Crystallographica Section C: Crystal Structure Communications, 2005, 61, m329-m332.	0.4	12
133	Excitons and Excess Electrons in Nanometer Size Molecular Polyoxotitanate Clusters: Electronic Spectra, Exciton Dynamics, and Surface States. Journal of Physical Chemistry B, 2013, 117, 4422-4430.	1.2	11
134	On the Crystal Structures of the Low-dimensional Clover Phases: Low Temperature Structure of (Benzophenone)₄ (LiI₅) and Comparison with (Benzophenone)₉ (KI)₂I₇CHCI₃. Molecular Crystals and Liquid Crystals, 1981, 78, 319-326.	0.9	9
135	Perspective: On the relevance of slower-than-femtosecond time scales in chemical structural-dynamics studies. Structural Dynamics, 2015, 2, 020901.	0.9	8
136	XI. Overcoming the Freeâ€Atom Bias with Modified Leastâ€Squares Formalisms. Israel Journal of Chemistry, 1977, 16, 159-162.	1.0	7
137	Composite Crystals: What Are They and Why Are They so Common in the Organic Solid State?. Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics, 1990, 181, 81-90.	0.3	7
138	The change in the X-ray dipole moment as a quantitative measure of the polarizing effect of the molecular environment: application to a complex of p-amino-pâ€²-nitrobiphenyl with triphenylphosphine oxide. Chemical Communications, 1999, , 2425-2426.	2.2	7
139	Exploring the structural changes on excitation of a luminescent organic bromine-substituted complex by in-house time-resolved pump-probe diffraction. Structural Dynamics, 2017, 4, 024501.	0.9	7
140	Absolute Intensities and the Chemical Objectives of Charge Density Studies by Diffraction Methods. Israel Journal of Chemistry, 1972, 10, 85-91.	1.0	6
141	Analysis of multicrystal pumpâ€“probe data sets. I. Expressions for the RATIO model. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, 514-517.	0.0	6
142	The Past and Future of Experimental Charge Density Analysis. NATO ASI Series Series B: Physics, 1991, , 7-22.	0.2	6
143	Electrostatic Properties of Molecules from the X-Ray Charge Density. Application to Deuterated Benzene, l-Alanine and d,l-Histidine. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1993, 48, 85-90.	0.7	5
144	The old and the new: my participation in the development of chemical crystallography during 50+ years. Physica Scripta, 2015, 90, 058001.	1.2	5

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145	Can we deconvolute electron density changes from the dominant influence of the atomic rearrangement on molecular excitation in time-resolved diffraction studies?. Physica Scripta, 2016, 91, 023003.	1.2	5
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