

David Albesa-JovÃ©

List of Publications by Year in descending order

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53
papers

2,330
citations

257450

24
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docs citations

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times ranked

3004
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis, Crystal Structures, Linear and Nonlinear Optical Properties, and Theoretical Studies of (p-R-Phenyl)-, (p-R-Phenylethynyl)-, and (E)-[2-(p-R-Phenyl)ethenyl]dimesitylboranes and Related Compounds. <i>Chemistry - A European Journal</i> , 2006, 12, 2758-2771.	3.3	218
2	Ir-Catalyzed Borylation of C-H Bonds in N-Containing Heterocycles: Regioselectivity in the Synthesis of Heteroaryl Boronate Esters. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 489-491.	13.8	206
3	Type VI Secretion System in <i>Pseudomonas aeruginosa</i> . <i>Journal of Biological Chemistry</i> , 2011, 286, 12317-12327.	3.4	150
4	Ruthenium Complexes of C ₂ C ₂ -Bis(ethynyl)carboranes: An Investigation of Electronic Interactions Mediated by Spherical Pseudo-aromatic Spacers. <i>Journal of the American Chemical Society</i> , 2008, 130, 3566-3578.	13.7	116
5	Structural insights into the molecular organization of the layer from <i>Clostridium difficile</i> . <i>Molecular Microbiology</i> , 2009, 71, 1308-1322.	2.5	115
6	TssA forms a gp6-like ring attached to the type VI secretion sheath. <i>EMBO Journal</i> , 2016, 35, 1613-1627.	7.8	84
7	Iridium-catalyzed C-H borylation of pyridines. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 7318.	2.8	82
8	Syntheses, structures, two-photon absorption cross-sections and computed second hyperpolarisabilities of quadrupolar A ⁺ A ⁻ systems containing E-dimesitylborylethenyl acceptors. <i>Journal of Materials Chemistry</i> , 2009, 19, 7532.	6.7	81
9	Structure-function relationships of membrane-associated GT-B glycosyltransferases. <i>Glycobiology</i> , 2014, 24, 108-124.	2.5	80
10	Structural Basis of Chitin Oligosaccharide Deacetylation. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6882-6887.	13.8	79
11	Challenges in Direct-Space Structure Determination from Powder Diffraction Data: A Molecular Material with Four Independent Molecules in the Asymmetric Unit. <i>ChemPhysChem</i> , 2004, 5, 414-418.	2.1	70
12	The conformational plasticity of glycosyltransferases. <i>Current Opinion in Structural Biology</i> , 2016, 40, 23-32.	5.7	69
13	Solid-State Supramolecular Organization, Established Directly from Powder Diffraction Data, and Photoluminescence Efficiency of Rigid-Core Oligothiophene-S,S-dioxides. <i>Journal of the American Chemical Society</i> , 2003, 125, 12277-12283.	13.7	62
14	Synthesis, optical properties, crystal structures and phase behaviour of selectively fluorinated 1,4-bis(4?-pyridylethynyl)benzenes, 4-(phenylethynyl)pyridines and 9,10-bis(4?-pyridylethynyl)anthracene, and a Zn(NO ₃) ₂ coordination polymer. <i>Journal of Materials Chemistry</i> , 2004, 14, 2395.	6.7	57
15	Syntheses and molecular structures of group 8 benzonitrile complexes. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 4908-4919.	1.8	46
16	Four Distinct Structural Domains in <i>Clostridium difficile</i> Toxin B Visualized Using SAXS. <i>Journal of Molecular Biology</i> , 2010, 396, 1260-1270.	4.2	46
17	Secondary structure reshuffling modulates glycosyltransferase function at the membrane. <i>Nature Chemical Biology</i> , 2015, 11, 16-18.	8.0	44
18	Rv2466c Mediates the Activation of TP053 To Kill Replicating and Non-replicating <i>Mycobacterium tuberculosis</i> . <i>ACS Chemical Biology</i> , 2014, 9, 1567-1575.	3.4	41

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19	Synthesis, optical properties, crystal structures and phase behaviour of symmetric, conjugated ethynylarene-based rigid rods with terminal carboxylate groups. <i>Journal of Materials Chemistry</i> , 2005, 15, 690-697.	6.7	40
20	A Native Ternary Complex Trapped in a Crystal Reveals the Catalytic Mechanism of a Retaining Glycosyltransferase. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9898-9902.	13.8	35
21	Identification of Tse8 as a Type VI secretion system toxin from <i>Pseudomonas aeruginosa</i> that targets the bacterial transamidosome to inhibit protein synthesis in prey cells. <i>Nature Microbiology</i> , 2021, 6, 1199-1210.	13.3	30
22	Metal Cluster Terminated "Molecular Wires". <i>Journal of Cluster Science</i> , 2006, 17, 65-85.	3.3	28
23	The antibacterial prodrug activator Rv2466c is a mycothiol-dependent reductase in the oxidative stress response of <i>Mycobacterium tuberculosis</i> . <i>Journal of Biological Chemistry</i> , 2017, 292, 13097-13110.	3.4	27
24	Structural Basis of Glycogen Biosynthesis Regulation in Bacteria. <i>Structure</i> , 2016, 24, 1613-1622.	3.3	25
25	The synthesis, structure, reactivity and electrochemical properties of ruthenium complexes featuring cyanoacetylide ligands. <i>Inorganica Chimica Acta</i> , 2006, 359, 946-961.	2.4	24
26	Structural Versatility of Pyrene-2-(4,4,5,5-tetramethyl-[1,3,2]dioxaborolane) and Pyrene-2,7-bis(4,4,5,5-tetramethyl-[1,3,2]dioxaborolane). <i>Crystal Growth and Design</i> , 2012, 12, 2794-2802.	3.0	24
27	Conformational Plasticity of the Essential Membrane-associated Mannosyltransferase PimA from <i>Mycobacteria</i> . <i>Journal of Biological Chemistry</i> , 2013, 288, 29797-29808.	3.4	24
28	Structural Snapshots of β -Galactosyltransferase with Native Substrates: Insight into the Catalytic Mechanism of Retaining Glycosyltransferases. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14853-14857.	13.8	24
29	Structural Aspects of the β -Polymorph of (E)-4-Formylcinnamic Acid: Structure Determination Directly from Powder Diffraction Data and Elucidation of Structural Disorder from Solid-State NMR. <i>Helvetica Chimica Acta</i> , 2003, 86, 1467-1477.	1.6	23
30	Structural basis for selective recognition of acyl chains by the membrane-associated acyltransferase PatA. <i>Nature Communications</i> , 2016, 7, 10906.	12.8	23
31	The electronic structures of diruthenium complexes containing an oligo(phenylene ethynylene) bridging ligand, and some related molecular structures. <i>Dalton Transactions</i> , 2010, 39, 11605.	3.3	20
32	Structural basis of phosphatidyl-myo-inositol mannosides biosynthesis in mycobacteria. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2017, 1862, 1355-1367.	2.4	20
33	The syntheses, structures and redox properties of phosphine-gold(I) and triruthenium-carbonyl cluster derivatives of tolans. <i>Inorganica Chimica Acta</i> , 2008, 361, 1646-1658.	2.4	17
34	A Solid-State Dehydration Process Associated with a Significant Change in the Topology of Dihydrogen Phosphate Chains, Established from Powder X-ray Diffraction. <i>Crystal Growth and Design</i> , 2008, 8, 3641-3645.	3.0	17
35	Mechanistic Insights into the Retaining Glucosyl-3-phosphoglycerate Synthase from <i>Mycobacteria</i> . <i>Journal of Biological Chemistry</i> , 2012, 287, 24649-24661.	3.4	17
36	The Redox State Regulates the Conformation of Rv2466c to Activate the Antitubercular Prodrug TP053. <i>Journal of Biological Chemistry</i> , 2015, 290, 31077-31089.	3.4	17

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37	Electronic interactions in bridged bis(cluster) assemblies – a comparison of para-CB10H10C, para-C6H4 and C4 bridges. <i>Comptes Rendus Chimie</i> , 2005, 8, 1883-1896.	0.5	16
38	Ligand redox non-innocent behaviour in ruthenium complexes of ethynyl tolans. <i>Inorganica Chimica Acta</i> , 2011, 374, 461-471.	2.4	16
39	Regulation of Human Hsc70 ATPase and Chaperone Activities by Apg2: Role of the Acidic Subdomain. <i>Journal of Molecular Biology</i> , 2019, 431, 444-461.	4.2	16
40	Structural Snapshots and Loop Dynamics along the Catalytic Cycle of Glycosyltransferase GpgS. <i>Structure</i> , 2017, 25, 1034-1044.e3.	3.3	15
41	Structure-function relationships underlying the dual N-acetylmuramic and N-acetylglucosamine specificities of the bacterial peptidoglycan deacetylase PdaC. <i>Journal of Biological Chemistry</i> , 2019, 294, 19066-19080.	3.4	15
42	Recent advances in opportunities for solving molecular crystal structures directly from powder diffraction data: new insights in crystal engineering contexts. <i>CrystEngComm</i> , 2002, 4, 356-367.	2.6	12
43	Improved syntheses of bis(ethynyl)-para-carboranes, 1,12-(RCC)2-1,12-C2B10H10 and 1,10-(RCC)2-1,10-C2B8H8 (R=H or Me3Si). <i>Journal of Organometallic Chemistry</i> , 2006, 691, 3889-3894.	1.8	12
44	The synthesis, structure, and electrochemical properties of Fe(Câ%îCCâ%îN)(dppe)Cp and related compounds. <i>Canadian Journal of Chemistry</i> , 2006, 84, 154-163.	1.1	11
45	Synthesis of new mer,trans-rhodium(III) hydrido-bis(acetylide) complexes: Structure of mer,trans-[(PMe3)3Rh(CCâ%îC6H4-4-NMe2)2H]. <i>Inorganica Chimica Acta</i> , 2006, 359, 2859-2863.	2.4	11
46	The Molecular Mechanism of Substrate Recognition and Catalysis of the Membrane Acyltransferase PatA from Mycobacteria. <i>ACS Chemical Biology</i> , 2018, 13, 131-140.	3.4	10
47	Trimetallic complexes featuring Group 10 tetracyanomethylate dianions as bridging ligands. <i>Inorganica Chimica Acta</i> , 2006, 359, 3459-3466.	2.4	9
48	The synthesis and liquid crystalline behaviour of alkoxyâ%îsubstituted derivatives of 1,4â%îbis(phenylethynyl)benzene. <i>Liquid Crystals</i> , 2008, 35, 119-132.	2.2	9
49	Quick-soaking of crystals reveals unprecedented insights into the catalytic mechanism of glycosyltransferases. <i>Methods in Enzymology</i> , 2019, 621, 261-279.	1.0	6
50	Dissecting the Structural and Chemical Determinants of the â%îOpen-to-Closedâ%î Motion in the Mannosyltransferase PimA from Mycobacteria. <i>Biochemistry</i> , 2020, 59, 2934-2945.	2.5	5
51	Structural insights into <i>Pseudomonas aeruginosa</i> Type six secretion system exported effector 8. <i>Journal of Structural Biology</i> , 2020, 212, 107651.	2.8	3
52	The allosteric control mechanism of bacterial glycogen biosynthesis disclosed by cryoEM. <i>Current Research in Structural Biology</i> , 2020, 2, 89-103.	2.2	2
53	Structural Snapshots of Î±-1,3-Galactosyltransferase with Native Substrates: Insight into the Catalytic Mechanism of Retaining Glycosyltransferases. <i>Angewandte Chemie</i> , 2017, 129, 15049-15053.	2.0	1