Miguel A Garcia-Garibay

List of Publications by Year
in descending order

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186 papers	8,266 citations	38742 50 h-index	62596 80 g-index
195 all docs	195 docs citations	195 times ranked	6346 citing authors

#	Article	IF	Citations
1	Crystalline molecular machines: function, phase order, dimensionality, and composition. Chemical Society Reviews, 2012, 41, 1892-1910.	38.1	347
2	Steps To Demarcate the Effects of Chromophore Aggregation and Planarization in Poly(phenyleneethynylene)s. 1. Rotationally Interrupted Conjugation in the Excited States of 1,4-Bis(phenylethynyl)benzene. Journal of the American Chemical Society, 2001, 123, 4259-4265.	13.7	335
3	Crystalline Molecular Machines:â€‰ A Quest Toward Solid-State Dynamics and Function. Accounts of Chemical Research, 2006, 39, 413-422.	15.6	299
4	Amphidynamic Character of Crystalline MOF-5:â€‰ Rotational Dynamics of Terephthalate Phenylenes in a Free-Volume, Sterically Unhindered Environment. Journal of the American Chemical Society, 2008, 130, 3246-3247.	13.7	229
5	Crystalline molecular machines: Encoding supramolecular dynamics into molecular structure. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 10771-10776.	7.1	216
6	Molecular Crystals on the Move: From Singleâ€Crystalâ€toâ€Singleâ€Crystal Photoreactions to Molecular Machinery. Angewandte Chemie - International Edition, 2007, 46, 8945-8947.	13.8	194
7	NMR and X-ray Study Revealing the Rigidity of Zeolitic Imidazolate Frameworks. Journal of Physical Chemistry C, 2012, 116, 13307-13312.	3.1	150
8	Molecular Compasses and Gyroscopes. II. Synthesis and Characterization of Molecular Rotors with Axially Substituted Bis[2-(9-triptycyl)ethynyl]arenes. Journal of the American Chemical Society, 2002, 124, 4701-4707.	13.7	145
9	Naphthalene Diimide Based Materials with Adjustable Redox Potentials: Evaluation for Organic Lithium-Ion Batteries. Chemistry of Materials, 2014, 26, 7151-7157.	6.7	141
10	Molecular â€œCompassesâ€• and â€œGyroscopesâ€•. I. Expedient Synthesis and Solid State Dynamics of an Open Rotor with a Bis(triarylmethyl) Frame. Journal of the American Chemical Society, 2002, 124, 2398-2399.	13.7	133
11	Molecular â€œCompassesâ€• and â€œGyroscopes.â€•III. Dynamics of a Phenylene Rotor and Clathrated Benzene in a Slipping-Gear Crystal Lattice. Journal of the American Chemical Society, 2002, 124, 7719-7727.	13.7	127
12	Unusual Luminescence of Hexapyrrolidine Derivatives of C60withThand NovelD3-Symmetry. Journal of the American Chemical Society, 1999, 121, 3246-3247.	13.7	126
13	Engineering Carbene Rearrangements in Crystals:â€‰ From Molecular Information to Solid-State Reactivity. Accounts of Chemical Research, 2003, 36, 491-498.	15.6	126
14	Molecular Compasses and Gyroscopes with Polar Rotors:Â Synthesis and Characterization of Crystalline Forms. Journal of the American Chemical Society, 2003, 125, 8827-8837.	13.7	126
15	Symmetry and dynamics of molecular rotors in amphidynamic molecular crystals. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 14973-14977.	7.1	109
16	Polarized Electronic Spectroscopy and Photophysical Properties of 9,10-Bis(phenylethynyl)anthracene. Journal of Physical Chemistry A, 2000, 104, 8632-8637.	2.5	101
17	The Photoarrangement of Î±-Santonin is a Single-Crystal-to-Single-Crystal Reaction:â€‰ A Long Kept Secret in Solid-State Organic Chemistry Revealed. Journal of the American Chemical Society, 2007, 129, 9846-9847.	13.7	99
18	Host-Guest Chemistry Aids and Abets a Stereospecific Photodimerization in the Solid State. Angewandte Chemie - International Edition, 2001, 40, 4256-4261.	13.8	98

#	Article	IF	Citations
19	Diastereospecific Photochemical Dimerization of a Stilbene-Containing Daisy Chain Monomer in Solution as well as in the Solid State. Angewandte Chemie - International Edition, 2003, 42, 1126-1132.	13.8	98
20	Ultra-fast Rotors for Molecular Machines and Functional Materials via Halogen Bonding: Crystals of 1,4-Bis(iodoethynyl)bicyclo[2.2.2]octane with Distinct Gigahertz Rotation at Two Sites. Journal of the American Chemical Society, 2011, 133, 6371-6379.	13.7	98
21	Phosphorescence Control Mediated by Molecular Rotation and Aurophilic Interactions in Amphidynamic Crystals of 1,4-Bis[tri-(p-fluorophenyl)phosphane-gold(I)-ethynyl]benzene. Journal of the American Chemical Society, 2017, 139, 18115-18121.	13.7	97
22	Dielectric response of a dipolar molecular rotor crystal. Physical Review B, 2005, 72, .	3.2	92
23	Dynamic Characterization of Crystalline Supramolecular Rotors Assembled through Halogen Bonding. Journal of the American Chemical Society, 2015, 137, 15386-15389.	13.7	88
24	Molecular Crystals with Moving Parts:Â Synthesis, Characterization, and Crystal Packing of Molecular Gyroscopes with Methyl-Substituted Triptycyl Frames. Journal of Organic Chemistry, 2004, 69, 1652-1662.	3.2	84
25	Large-Scale Photochemical Reactions of Nanocrystalline Suspensions:â€‰ A Promising Green Chemistry Method. Organic Letters, 2006, 8, 2615-2617.	4.6	82
26	Thermosalient Amphidynamic Molecular Machines: Motion at the Molecular and Macroscopic Scales. Matter, 2019, 1, 1033-1046.	10.0	81
27	Amphidynamic Crystals: Structural Blueprints for Molecular Machines. , 0, , 179-227.		80
28	Total Synthesis of (Â±)-Herbertenolide by Stereospecific Formation of Vicinal Quaternary Centers in a Crystalline Ketone. Organic Letters, 2004, 6, 645-647.	4.6	76
29	Ultrafast rotation in an amphidynamic crystalline metal organic framework. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13613-13618.	7.1	74
30	Dipolar rotor-rotor interactions in a difluorobenzene molecular rotor crystal. Physical Review B, 2006, 74, .	3.2	72
31	Diffusion-Controlled Rotation of Triptycene in a Metalâ€“Organic Framework (MOF) Sheds Light on the Viscosity of MOF-Confined Solvent. ACS Central Science, 2016, 2, 608-613.	11.3	71
32	Rotational Dynamics of Diazabicyclo[2.2.2]octane in Isomorphous Halogen-Bonded Co-crystals: Entropic and Enthalpic Effects. Journal of the American Chemical Society, 2017, 139, 843-848.	13.7	71
33	Effects of Rotational Symmetry Order on the Solid State Dynamics of Phenylene and Diamantane Rotators. Journal of the American Chemical Society, 2005, 127, 6554-6555.	13.7	70
34	Photochromic Molecular Gyroscope with Solid State Rotational States Determined by an Azobenzene Bridge. Journal of Organic Chemistry, 2014, 79, 1611-1619.	3.2	69
35	Parallel Syntheses of (+)â€•and (â^')â€Î±â€Cuparenone by Radical Combination in Crystalline Solids. Angewandte Chemie - International Edition, 2007, 46, 6485-6487.	13.8	68
36	Framework mobility in the metalâ€“organic framework crystal IRMOF-3: Evidence for aromatic ring and amine rotation. Journal of Molecular Structure, 2011, 1004, 94-101.	3.6	68

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37	Anisochronous Dynamics in a Crystalline Array of Steroidal Molecular Rotors: Evidence of Correlated Motion within 1D Helical Domains. Journal of the American Chemical Society, 2011, 133, 7280-7283.	13.7	64
38	Rotational Dynamics in a Crystalline Molecular Gyroscope by Variable-Temperature13C NMR,2H NMR, X-Ray Diffraction, and Force Field Calculations. Journal of the American Chemical Society, 2007, 129, 839-845.	13.7	62
39	Synthesis of a Triply-Bridged Molecular Gyroscope by a Directed Meridional Cyclization Strategy. Organic Letters, 2007, 9, 3559-3561.	4.6	62
40	Amphidynamic Crystals of a Steroidal Bicyclo[2.2.2]octane Rotor: A High Symmetry Group That Rotates Faster than Smaller Methyl and Methoxy Groups. Journal of the American Chemical Society, 2013, 135, 10388-10395.	13.7	62
41	Rotation of a Bulky Triptycene in the Solid State: Toward Engineered Nanoscale Artificial Molecular Machines. Journal of the American Chemical Society, 2014, 136, 8871-8874.	13.7	62
42	Importance of Correlated Motions on the Low Barrier Rotational Potentials of Crystalline Molecular Gyroscopes. Journal of the American Chemical Society, 2007, 129, 3110-3117.	13.7	58
43	Photonic Amplification by a Singlet-State Quantum Chain Reaction in the Photodecarbonylation of Crystalline Diarylcyclopropenones. Journal of the American Chemical Society, 2009, 131, 11606-11614.	13.7	58
44	Studies of Naphthyl-Substituted Î²-Cyclodextrins. Self-Aggregation and Inclusion of External Guests. Journal of the American Chemical Society, 1998, 120, 4269-4275.	13.7	57
45	Anisotropic Thermal Expansion as the Source of Macroscopic and Molecular Scale Motion in Phosphorescent Amphidynamic Crystals. Angewandte Chemie - International Edition, 2019, 58, 18003-18010.	13.8	56
46	Molecular Compasses and Gyroscopes:â€‰ Engineering Molecular Crystals with Fast Internal Rotation. Crystal Growth and Design, 2004, 4, 15-18.	3.0	54
47	Dendritic Porphyrinâ€“Fullerene Conjugates: Efficient Lightâ€Harvesting and Chargeâ€Transfer Events. Chemistry - A European Journal, 2009, 15, 12223-12233.	3.3	54
48	Kinetic Control in the Synthesis of a MÃ¶bius Tris((ethynyl)[5]helicene) Macrocycle Using Alkyne Metathesis. Journal of the American Chemical Society, 2020, 142, 6493-6498.	13.7	54
49	Structureâ€“Reactivity Correlations and Mechanistic Understanding of the Photorearrangement and Photosalient Effect of Î±-Santonin and Its Derivatives in Solutions, Crystals, and Nanocrystalline Suspensions. Crystal Growth and Design, 2015, 15, 1983-1990.	3.0	53
50	Crystal Fluidity Reflected by Fast Rotational Motion at the Core, Branches, and Peripheral Aromatic Groups of a Dendrimeric Molecular Rotor. Journal of the American Chemical Society, 2016, 138, 4650-4656.	13.7	53
51	Design and Evaluation of a Crystalline Hybrid of Molecular Conductors and Molecular Rotors. Journal of the American Chemical Society, 2012, 134, 7880-7891.	13.7	52
52	Photoinduced and Thermal Denitrogenation of Bulky Triazoline Crystals: Insights into Solid-to-Solid Transformation. Journal of the American Chemical Society, 2013, 135, 6626-6632.	13.7	52
53	Origins of Stereoselective Carbene 1,2-Shifts and Cycloadditions of 1,2-Dichloroethylidene:â€‰ A Theoretical Model Based on CBS-Q and B3LYP Calculations. Journal of the American Chemical Society, 1997, 119, 10805-10809.	13.7	51
54	Spectrometric and 2D NMR Studies on the Complexation of Chlorophenols with Cyclodextrins. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2001, 39, 41-46.	1.6	51

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55	Thermodynamic Evaluation of Aromatic CH/Ï€ Interactions and Rotational Entropy in a Molecular Rotor. Journal of the American Chemical Society, 2015, 137, 2175-2178.	13.7	50
56	Photophysical Properties of Coplanar and Twisted 1,4-Bis(9-ethynylanthracenyl)benzene. Rotational Equilibration in the Excited States of Diaryalkynes. Journal of Physical Chemistry A, 2002, 106, 1551-1556.	2.5	49
57	Engineering Reactions in Crystalline Solids:Â Predicting Photochemical Decarbonylation from Calculated Thermochemical Parameters. Journal of Organic Chemistry, 2002, 67, 3749-3754.	3.2	47
58	Dynamics of Molecular Rotors Confined in Two Dimensions: Transition from a 2D Rotational Glass to a 2D Rotational Fluid in a Periodic Mesoporous Organosilica. Journal of Physical Chemistry B, 2012, 116, 1623-1632.	2.6	47
59	Engineering Crystal Packing and Internal Dynamics in Molecular Gyroscopes by Refining their Components. Fast Exchange of a Phenylene Rotator by ²H NMR. Crystal Growth and Design, 2009, 9, 3124-3128.	3.0	45
60	Solid-State Photodecarbonylation of Diphenylcyclopropenone:â€‰ A Quantum Chain Process Made Possible by Ultrafast Energy Transfer. Journal of the American Chemical Society, 2008, 130, 1140-1141.	13.7	44
61	Taming Radical Pairs in Nanocrystalline Ketones: Photochemical Synthesis of Compounds with Vicinal Stereogenic All-Carbon Quaternary Centers. Journal of the American Chemical Society, 2018, 140, 8359-8371.	13.7	44
62	Correlated motion and mechanical gearing in amphidynamic crystalline molecular machines. Chemical Science, 2020, 11, 12994-13007.	7.4	43
63	Influence of Bystander Substituents on the Rates of 1,2-H and 1,2-Ph Shifts in Singlet and Triplet Carbenes. Journal of Physical Chemistry A, 1998, 102, 8467-8476.	2.5	41
64	Steps To Demarcate the Effects of Chromophore Aggregation and Planarization in Poly(phenyleneethynylene)s. 2. The Photophysics of 1,4-Diethynyl-2-fluorobenzene in Solution and in Crystals. Journal of Organic Chemistry, 2001, 66, 3188-3195.	3.2	41
65	An Approach To Enhance the Safety Culture of an Academic Chemistry Research Laboratory by Addressing Behavioral Factors. Journal of Chemical Education, 2016, 93, 217-222.	2.3	41
66	Green Chemistry Strategies Using Crystal-to-Crystal Photoreactions:Â Stereoselective Synthesis and Decarbonylation oftrans-Î±,Î±â€²-Dialkenoylcyclohexanones. Journal of the American Chemical Society, 2005, 127, 7994-7995.	13.7	40
67	Nanoscale gadgets. Nature Materials, 2008, 7, 431-432.	27.5	40
68	Phosphine-Mediated Iterative Arene Homologation Using Allenes. Journal of the American Chemical Society, 2015, 137, 11258-11261.	13.7	40
69	Primary Isotope Effects on Excited State Hydrogen Atom Transfer Reactions. Activated and Tunneling Mechanisms in an ortho-Methylanthrone. Journal of the American Chemical Society, 1995, 117, 10264-10275.	13.7	38
70	Molecular Control of Solid-State Reactivity and Biradical Formation from Crystalline Ketones. Journal of the American Chemical Society, 1996, 118, 12477-12478.	13.7	38
71	The Roles of Intrinsic Barriers and Crystal Fluidity in Determining the Dynamics of Crystalline Molecular Rotors and Molecular Machines. Journal of Organic Chemistry, 2019, 84, 9835-9849.	3.2	38
72	Pumpâ€“probe spectroscopy and circular dichroism of nanocrystalline benzophenoneâ€”towards absolute kinetic measurements in solid state photochemical reactions. Chemical Communications, 2007, , 4266.	4.1	37

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73	Efficient Utilization of Higherâ€Lying Excited States to Trigger Chargeâ€Transfer Events. Chemistry - A European Journal, 2010, 16, 9638-9645.	3.3	36
74	Synthesis of Bridged Molecular Gyroscopes with Closed Topologies: Triple One-Pot Macrocyclization. Journal of Organic Chemistry, 2011, 76, 8355-8363.	3.2	36
75	Anisotropic Thermal Expansion as the Source of Macroscopic and Molecular Scale Motion in Phosphorescent Amphidynamic Crystals. Angewandte Chemie, 2019, 131, 18171-18178.	2.0	36
76	An Efficient Solid-to-Solid Reaction via a Steady-State Phase Separation Mechanism. Journal of the American Chemical Society, 1995, 117, 12893-12894.	13.7	34
77	Generation and Reactivity of a Triplet 1,4-Biradical Conformationally Trapped in a Crystalline Cyclopentanone. Journal of the American Chemical Society, 1998, 120, 4540-4541.	13.7	34
78	Synthesis, Characterization, and Rotational Dynamics of Crystalline Molecular Compasses with N-Heterocyclic Rotators. Journal of Organic Chemistry, 2009, 74, 8554-8565.	3.2	34
79	Hammett Analysis of Photodecarbonylation in Crystalline 1,3-Diarylacetones. Organic Letters, 2005, 7, 371-374.	4.6	33
80	Solid-State Molecular Rotors with Perdeuterated Stators: Mechanistic Insights from Biphenylene Rotational Dynamics in Ordered and Disordered Crystal Forms. Journal of Organic Chemistry, 2010, 75, 2482-2491.	3.2	33
81	The Missing Link Between Molecular Triplets and Spin-Polarized Free Radicals: Room Temperature Triplet States of Nanocrystalline Radical Pairs. Journal of the American Chemical Society, 2010, 132, 82-84.	13.7	33
82	Synthesis, Rotational Dynamics, and Photophysical Characterization of a Crystalline Linearly Conjugated Phenyleneethynylene Molecular Dirotor. Journal of Organic Chemistry, 2013, 78, 5293-5302.	3.2	33
83	Throwing in a Monkey Wrench to Test and Determine Geared Motion in the Dynamics of a Crystalline One-Dimensional (1D) Columnar Rotor Array. Journal of the American Chemical Society, 2019, 141, 2413-2420.	13.7	33
84	Enantiospecific Synthesis of Vicinal Stereogenic Tertiary and Quaternary Centers by Combination of Configurationally-Trapped Radical Pairs in Crystalline Solids. Organic Letters, 2003, 5, 2531-2534.	4.6	31
85	Excited State Kinetics in Crystalline Solids: Self-Quenching in Nanocrystals of 4,4â€²-Disubstituted Benzophenone Triplets Occurs by a Reductive Quenching Mechanism. Journal of the American Chemical Society, 2011, 133, 17296-17306.	13.7	31
86	Control of Carbene Reactivity by Crystals. A Highly Selective 1,2-H Shift in the Solid-to-Solid Reaction of 1-(4â€˜-Biphenylyl)-2-phenyldiazopropane to (Z)-1-(4â€˜-Biphenylyl)-2-phenylpropene. Journal of the American Chemical Society, 1997, 119, 1859-1868.	13.7	30
87	Improved Physical Properties and Rotational Dynamics in a Molecular Gyroscope with an Asymmetric Stator Structure. Organic Letters, 2006, 8, 3417-3420.	4.6	30
88	Diffusion and percolation of radical pairs in zeolite media. A product analysis study. Journal of the American Chemical Society, 1991, 113, 6212-6218.	13.7	29
89	Efficient Aziridine Synthesis in Metastable Crystalline Phases by Photoinduced Denitrogenation of Crystalline Triazolines. Organic Letters, 2012, 14, 3874-3877.	4.6	29
90	Engineering Reactions in Crystalline Solids: Prediction of Intramolecular Carbene Rearrangements. Tetrahedron, 2000, 56, 6729-6737.	1.9	28

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91	Engineering Reactions in Crystalline Solids:Â Photochemical Generation of Secondary and Tertiary Enol Radical Pairs from Crystalline Ketodiesters. Journal of Organic Chemistry, 2001, 66, 4468-4475.	3.2	28
92	Synthesis and solid state characterization of molecular rotors with steroidal stators: ethisterone and norethisterone. Organic and Biomolecular Chemistry, 2010, 8, 2993.	2.8	28
93	Oxyallyl Exposed: An Open-Shell Singlet with Picosecond Lifetimes in Solution but Persistent in Crystals of a Cyclobutanedione Precursor. Journal of the American Chemical Society, 2011, 133, 2342-2345.	13.7	28
94	Large-Scale Green Chemical Synthesis of Adjacent Quaternary Chiral Centers by Continuous Flow Photodecarbonylation of Aqueous Suspensions of Nanocrystalline Ketones. Journal of the American Chemical Society, 2015, 137, 1679-1684.	13.7	28
95	Transforming a Nonselective Carbene Rearrangement into a Highly Selective Process by Using Crystalline Media. Journal of the American Chemical Society, 1996, 118, 7626-7627.	13.7	27
96	Engineering Stereospecific Reactions in Crystals: Synthesis of Compounds with Adjacent Stereogenic Quaternary Centers by Photodecarbonylation of Crystalline Ketones. Topics in Stereochemistry, 2006, , 205-253.	2.0	27
97	Synthesis and Solid-State Characterization of Self-Assembled Macrocyclic Molecular Rotors of Bis(dithiocarbamate) Ligands with Diorganotin(IV). Organometallics, 2014, 33, 354-362.	2.3	27
98	Encapsulating N-Heterocyclic Carbene Binuclear Transition-Metal Complexes as a New Platform for Molecular Rotation in Crystalline Solid-State. Journal of the American Chemical Society, 2021, 143, 1144-1153.	13.7	27
99	Dipolar order in an amphidynamic crystalline metalâ€“organic framework through reorienting linkers. Nature Chemistry, 2021, 13, 278-283.	13.6	26
100	Highlighting gyroscopic motion in crystals in 13C CPMAS spectra by specific isotopic substitution and restricted cross polarization. Chemical Communications, 2005, , 189.	4.1	25
101	Radical Reactions with Double Memory of Chirality (2MOC) for the Enantiospecific Synthesis of Adjacent Stereogenic Quaternary Centers in Solution: Cleavage and Bonding Faster than Radical Rotation. Journal of the American Chemical Society, 2009, 131, 8425-8433.	13.7	25
102	Engineered Photochromism in Crystalline Salicylidene Anilines by Facilitating Rotation to Reach the Colored trans-Keto Form. Crystal Growth and Design, 2014, 14, 3667-3673.	3.0	25
103	Engineering reactions in crystals: gem-dialkoxy substitution enables the photodecarbonylation of crystalline 2-indanone. Tetrahedron Letters, 2002, 43, 7063-7066.	1.4	24
104	Synthesis and Solid-State Rotational Dynamics of Molecular Gyroscopes with a Robust and Low Density Structure Built with a Phenylene Rotator and a Tri(meta-terphenyl)methyl Stator. Crystal Growth and Design, 2011, 11, 2654-2659.	3.0	24
105	Thermally Activated Transient Dipoles and Rotational Dynamics of Hydrogen-Bonded and Charge-Transferred Diazabicyclo [2.2.2]Octane Molecular Rotors. Journal of the American Chemical Society, 2019, 141, 16802-16809.	13.7	24
106	Discovery and Total Synthesis of a Bis(cyclotryptamine) Alkaloid Bearing the Elusive Piperidinoindoline Scaffold. Journal of the American Chemical Society, 2020, 142, 11685-11690.	13.7	24
107	Taming Radical Pairs in the Crystalline Solid State: Discovery and Total Synthesis of Psychotriadine. Journal of the American Chemical Society, 2021, 143, 4043-4054.	13.7	24
108	Conformational Polymorphism and Isomorphism of Molecular Rotors with Fluoroaromatic Rotators and Mestranol Stators. Crystal Growth and Design, 2013, 13, 5107-5115.	3.0	23

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109	Removal of Conflicting Molecular Symmetries Restores a Hexagonal Array of Six-Fold Phenyl Embraces in a bis(Trityl)-Containing Compound. I. Crystals of 1,1,1,6,6,6-Hexaphenyl-2,4-hexadiyne. Crystal Growth and Design, 2005, 5, 53-55.	3.0	21
110	Synthesis, properties, and LED performance of highly luminescent metal complexes containing indolizino[3,4,5-ab]isoindoles. Journal of Materials Chemistry, 2009, 19, 5826.	6.7	21
111	Crystalline arrays of molecular rotors with TIPS-trityl and phenolic-trityl stators using phenylene, 1,2-difluorophenylene and pyridine rotators. RSC Advances, 2015, 5, 55201-55208.	3.6	21
112	Combining Quantum Mechanical Reaction Pathways with Force Field Lattice Interactions To Model a Solid-State Phototransformation. Journal of the American Chemical Society, 1997, 119, 1474-1475.	13.7	20
113	Synthesis and Evaluation of Molecular Rotors with Large and Bulky tert-Butyldiphenylsilyloxy-Substituted Trityl Stators. Journal of Organic Chemistry, 2012, 77, 6887-6894.	3.2	20
114	Transmission Spectroscopy and Kinetics in Crystalline Solids Using Aqueous Nanocrystalline Suspensions: The Spiropyran-Merocyanine Photochromic System. Crystal Growth and Design, 2017, 17, 637-642.	3.0	20
115	2D Arrays of Organic Qubit Candidates Embedded into a Pillared-Paddlewheel Metalâ€“Organic Framework. Journal of the American Chemical Society, 2020, 142, 18513-18521.	13.7	20
116	Excited State Intramolecular Hydrogen Atom Transfer at Ultralow Temperatures. Evidence for Tunneling and Activated Mechanisms in 1,4-Dimethylanthrone. Journal of the American Chemical Society, 1994, 116, 12095-12096.	13.7	19
117	Engineering Reactions in Crystalline Solids:â€‰ Radical Pairs in Crystals of Dialkyl 1,3-Acetonedicarboxylates. Organic Letters, 2000, 2, 1963-1965.	4.6	19
118	Title is missing!. Angewandte Chemie, 2003, 115, 1158-1164.	2.0	19
119	Stereospecific Synthesis of Substituted Aziridines by a Crystal-to-Crystal Photodenitrogenation of Î”²-1,2,3-Triazolines. Organic Letters, 2015, 17, 4568-4571.	4.6	19
120	Photochemistry of Crystalline Chlorodiazirines:Â The Influence of Conformational Disorder and Intermolecular ClÂ·Â·Â·NN Interactions on the Solid-State Reactivity of Singlet Chlorocarbenesâ€. Journal of Physical Chemistry A, 2003, 107, 3287-3294.	2.5	18
121	Engineering reactions in crystals: suppression of photodecarbonylation by intramolecular Î²-phenyl quenching. Tetrahedron Letters, 2001, 42, 9113-9116.	1.4	17
122	Secondary Alpha Isotope Effects on Deuterium Tunneling in Tripleto-Methylanthrones:Â Extraordinary Sensitivity to Barrier Width. Journal of the American Chemical Society, 2005, 127, 10178-10179.	13.7	17
123	Steady state and transient kinetics in crystalline solids: the photochemistry of nanocrystalline 1,1,3-triphenyl-3-hydroxy-2-indanone. Chemical Science, 2011, 2, 1497.	7.4	17
124	Photodecarbonylation of 1,3-Dithiophenyl Propanone:â€‰ Using Nanocrystals to Overcome the Filtering Effect of Highly Absorbing Trace Impurities. Organic Letters, 2007, 9, 4351-4354.	4.6	16
125	Ring strain release as a strategy to enable the singlet state photodecarbonylation of crystalline 1,4â€cyclobutanediones. Journal of Physical Organic Chemistry, 2011, 24, 883-888.	1.9	16
126	Reaction Mechanism in Crystalline Solids: Kinetics and Conformational Dynamics of the Norrish Type II Biradicals from Î±-Adamantyl-p-Methoxyacetophenone. Journal of the American Chemical Society, 2012, 134, 1115-1123.	13.7	16

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127	Solvent effects on the singlet - triplet equilibrium and reactivity of a ground triplet state arylalkyl carbene. Tetrahedron Letters, 1993, 34, 8415-8418.	1.4	15
128	Excited Precursor Reactivity, Fast 1,2-H Shifts, and Diffusion-Controlled Methanol Insertion in 1,2-Diphenylalkylidenes. Journal of Organic Chemistry, 1999, 64, 5139-5147.	3.2	15
129	Toward Crystalline Molecular Rotors with Linearly Conjugated Diethynyl-Phenylene Rotators and Pentiptycene Stators. Journal of Organic Chemistry, 2012, 77, 7428-7434.	3.2	15
130	Structureâ€"Kinetics Correlations in Isostructural Crystals of Î±-(ortho-Tolyl)-acetophenones: Pinning Down Electronic Effects Using Laser-Flash Photolysis in the Solid State. Journal of the American Chemical Society, 2016, 138, 2644-2648.	13.7	15
131	Fluorescence and Rotational Dynamics of a Crystalline Molecular Rotor Featuring an Aggregation-Induced Emission Fluorophore. Journal of Organic Chemistry, 2019, 84, 9570-9576.	3.2	15
132	Reaction of arylcarbenes with methanol: triplet-state reactivity or spin-state equilibrium as a moving target?. Journal of the American Chemical Society, 1993, 115, 7011-7012.	13.7	14
133	Deuterium Tunneling in Triplet 5,8-Dimethyl-1-tetralone by Phosphorescence Detection between 80 and 15 K. The Journal of Physical Chemistry, 1996, 100, 4697-4700.	2.9	14
134	Synthesis and solid-state dynamics of molecular dirotors. Tetrahedron, 2008, 64, 8336-8345.	1.9	14
135	Photochemical generation, intramolecular reactions, and spectroscopic detection of oxonium ylide and carbene intermediates in a crystalline ortho-(1,3-dioxolan-2-yl)-diaryldiazomethane. Organic and Biomolecular Chemistry, 2009, 7, 1106.	2.8	14
136	Generation and Reactivity Studies of Diarylmethyl Radical Pairs in Crystalline Tetraarylacetones via Laser Flash Photolysis Using Nanocrystalline Suspensions. Journal of the American Chemical Society, 2017, 139, 13312-13317.	13.7	14
137	Chemical reactivity in organized media: statistical entropy and information in crystals and enzymes. Current Opinion in Solid State and Materials Science, 1998, 3, 399-406.	11.5	13
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