

Miguel A Garcia-Garibay

List of Publications by Year in descending order

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186
papers

8,266
citations

44444

50
h-index

71088

80
g-index

195
all docs

195
docs citations

195
times ranked

7085
citing authors

#	ARTICLE	IF	CITATIONS
1	A Green Chemistry Approach toward the Stereospecific Synthesis of Densely Functionalized Cyclopropanes via the Solid-State Photodenitrogenation of Crystalline 1-Pyrazolines. <i>Journal of Organic Chemistry</i> , 2022, 87, 2277-2288.	1.7	1
2	Scale-Dependent Photosalience and Topotactic Reaction of Microcrystalline Benzylidenebutyrolactone Determined by Electron Microscopy and Electron Diffraction. <i>Crystal Growth and Design</i> , 2022, 22, 1533-1537.	1.4	3
3	Slip/Stick Viscosity Models of Nanoconfined Liquids: Solvent-Dependent Rotation in Metal-Organic Frameworks. <i>Journal of Organic Chemistry</i> , 2022, 87, 1780-1790.	1.7	3
4	Dipolar order in an amphidynamic crystalline metal-organic framework through reorienting linkers. <i>Nature Chemistry</i> , 2021, 13, 278-283.	6.6	26
5	Taming Radical Pairs in the Crystalline Solid State: Discovery and Total Synthesis of Psychotriadine. <i>Journal of the American Chemical Society</i> , 2021, 143, 4043-4054.	6.6	24
6	Enhanced Gearing Fidelity Achieved Through Macrocyclization of a Solvated Molecular Spur Gear. <i>Journal of the American Chemical Society</i> , 2021, 143, 7740-7747.	6.6	12
7	Rotational Dynamics of an Amphidynamic Zirconium Metal-Organic Framework Determined by Dielectric Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5644-5648.	2.1	5
8	Strongly Entangled Triplet Acyl-Alkyl Radical Pairs in Crystals of Photostable Diphenylmethyl Adamantyl Ketones. <i>Journal of the American Chemical Society</i> , 2021, 143, 8886-8892.	6.6	2
9	Encapsulating <i>N</i> -Heterocyclic Carbene Binuclear Transition-Metal Complexes as a New Platform for Molecular Rotation in Crystalline Solid-State. <i>Journal of the American Chemical Society</i> , 2021, 143, 1144-1153.	6.6	27
10	2D Arrays of Organic Qubit Candidates Embedded into a Pillared-Paddlewheel Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2020, 142, 18513-18521.	6.6	20
11	Scalable Synthesis of Vicinal Quaternary Stereocenters via the Solid-State Photodecarbonylation of a Crystalline Hexasubstituted Ketone. <i>Organic Letters</i> , 2020, 22, 8855-8859.	2.4	12
12	Correlated motion and mechanical gearing in amphidynamic crystalline molecular machines. <i>Chemical Science</i> , 2020, 11, 12994-13007.	3.7	43
13	Fluorescence Anisotropy Decay of Molecular Rotors with Acene Rotators in Viscous Solution. <i>Journal of Organic Chemistry</i> , 2020, 85, 6872-6877.	1.7	3
14	Computational Investigation into Ligand Effects on Correlated Geared Dynamics in Dirhodium Supramolecular Gears—Insights Beyond the NMR Experimental Window. <i>Journal of Organic Chemistry</i> , 2020, 85, 8695-8701.	1.7	3
15	Discovery and Total Synthesis of a Bis(cyclotryptamine) Alkaloid Bearing the Elusive Piperidinoindoline Scaffold. <i>Journal of the American Chemical Society</i> , 2020, 142, 11685-11690.	6.6	24
16	Kinetic Control in the Synthesis of a M ⁺ bius Tris((ethynyl)[5]helicene) Macrocyclic Using Alkyne Metathesis. <i>Journal of the American Chemical Society</i> , 2020, 142, 6493-6498.	6.6	54
17	Molecular Spur Gears with Triptycene Rotators and a Norbornane-Based Stator. <i>Organic Letters</i> , 2020, 22, 4049-4052.	2.4	8
18	Enhanced Rotation by Ground State Destabilization in Amphidynamic Crystals of a Dipolar 2,3-Difluorophenylene Rotator as Established by Solid State ² H NMR and Dielectric Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2020, 124, 15391-15398.	1.5	12

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19	Evaluation of the photodecarbonylation of crystalline ketones for the installation of reverse prenyl groups on the pyrrolidinoindoline scaffold. <i>Tetrahedron</i> , 2020, 76, 131181.	1.0	3
20	Thermosalient Amphidynamic Molecular Machines: Motion at the Molecular and Macroscopic Scales. <i>Matter</i> , 2019, 1, 1033-1046.	5.0	81
21	Mechanistic Studies of Adamantylacetophenones with Competing Reaction Pathways in Solution and in the Crystalline Solid State. <i>Journal of Organic Chemistry</i> , 2019, 84, 11103-11113.	1.7	6
22	Fluorescence and Rotational Dynamics of a Crystalline Molecular Rotor Featuring an Aggregation-Induced Emission Fluorophore. <i>Journal of Organic Chemistry</i> , 2019, 84, 9570-9576.	1.7	15
23	Anisotropic Thermal Expansion as the Source of Macroscopic and Molecular Scale Motion in Phosphorescent Amphidynamic Crystals. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18003-18010.	7.2	56
24	Anisotropic Thermal Expansion as the Source of Macroscopic and Molecular Scale Motion in Phosphorescent Amphidynamic Crystals. <i>Angewandte Chemie</i> , 2019, 131, 18171-18178.	1.6	36
25	Thermally Activated Transient Dipoles and Rotational Dynamics of Hydrogen-Bonded and Charge-Transferred Diazabicyclo [2.2.2]Octane Molecular Rotors. <i>Journal of the American Chemical Society</i> , 2019, 141, 16802-16809.	6.6	24
26	The Roles of Intrinsic Barriers and Crystal Fluidity in Determining the Dynamics of Crystalline Molecular Rotors and Molecular Machines. <i>Journal of Organic Chemistry</i> , 2019, 84, 9835-9849.	1.7	38
27	Throwing in a Monkey Wrench to Test and Determine Geared Motion in the Dynamics of a Crystalline One-Dimensional (1D) Columnar Rotor Array. <i>Journal of the American Chemical Society</i> , 2019, 141, 2413-2420.	6.6	33
28	Taming Radical Pairs in Nanocrystalline Ketones: Photochemical Synthesis of Compounds with Vicinal Stereogenic All-Carbon Quaternary Centers. <i>Journal of the American Chemical Society</i> , 2018, 140, 8359-8371.	6.6	44
29	Nanosecond laser flash photolysis of a 6-nitroindolinoispiropyran in solution and in nanocrystalline suspension under single excitation conditions. <i>Photochemical and Photobiological Sciences</i> , 2018, 17, 741-749.	1.6	10
30	Static Modulation Wave of Arrays of Halogen Interactions Transduced to a Hierarchy of Nanoscale Change Stimuli of Crystalline Rotors Dynamics. <i>Nano Letters</i> , 2018, 18, 3780-3784.	4.5	13
31	Transient Kinetics and Quantum Yield Studies of Nanocrystalline $\hat{\pm}$ -Phenyl-Substituted Ketones: Sorting Out Reactions from Singlet and Triplet Excited States. <i>Journal of the American Chemical Society</i> , 2018, 140, 8192-8197.	6.6	4
32	Transmission Spectroscopy and Kinetics in Crystalline Solids Using Aqueous Nanocrystalline Suspensions: The Spiropyran-Merocyanine Photochromic System. <i>Crystal Growth and Design</i> , 2017, 17, 637-642.	1.4	20
33	Photochemistry and Transmission Pump-Probe Spectroscopy of 2-Azidobiphenyls in Aqueous Nanocrystalline Suspensions: Simplified Kinetics in Crystalline Solids. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1845-1850.	2.1	11
34	High-Yielding and Divergent Paradigm for the Synthesis of D_2h -Symmetric Octakis-Substituted Pentiptycenequinones. <i>Organic Letters</i> , 2017, 19, 1838-1841.	2.4	10
35	Rotational Dynamics of Diazabicyclo[2.2.2]octane in Isomorphous Halogen-Bonded Co-crystals: Entropic and Enthalpic Effects. <i>Journal of the American Chemical Society</i> , 2017, 139, 843-848.	6.6	71
36	Triplet Sensitized Photodenitrogenation of $\hat{\text{P}}^{2-}$ -1,2,3-Triazolines To Form Aziridines in Solution and in the Crystalline State: Observation of the Triplet 1,3-Alkyl-aminyl Biradical. <i>Journal of Organic Chemistry</i> , 2017, 82, 12128-12133.	1.7	7

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37	Generation and Reactivity Studies of Diarylmethyl Radical Pairs in Crystalline Tetraarylacetonates via Laser Flash Photolysis Using Nanocrystalline Suspensions. <i>Journal of the American Chemical Society</i> , 2017, 139, 13312-13317.	6.6	14
38	Stereospecific photochemistry of $\hat{\nu}$ 2-1,2,3-triazolines in solution and in the solid state: scope and mechanistic studies. <i>Photochemical and Photobiological Sciences</i> , 2017, 16, 1458-1463.	1.6	8
39	Ultrafast rotation in an amphidynamic crystalline metal organic framework. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 13613-13618.	3.3	74
40	Phosphorescence Control Mediated by Molecular Rotation and Auophilic Interactions in Amphidynamic Crystals of 1,4-Bis[tri-(<i>p</i> -fluorophenyl)phosphane-gold(I)-ethynyl]benzene. <i>Journal of the American Chemical Society</i> , 2017, 139, 18115-18121.	6.6	97
41	Diffusion-Controlled Rotation of Triptycene in a Metal-Organic Framework (MOF) Sheds Light on the Viscosity of MOF-Confined Solvent. <i>ACS Central Science</i> , 2016, 2, 608-613.	5.3	71
42	Solid State Characterization of Bridged Steroidal Molecular Rotors: Effect of the Rotator Fluorination on Their Crystallization. <i>Crystal Growth and Design</i> , 2016, 16, 1599-1605.	1.4	11
43	An Approach To Enhance the Safety Culture of an Academic Chemistry Research Laboratory by Addressing Behavioral Factors. <i>Journal of Chemical Education</i> , 2016, 93, 217-222.	1.1	41
44	Structure-Kinetics Correlations in Isostructural Crystals of $\hat{\nu}$ ±-(<i>ortho</i> -Tolyl)-acetophenones: Pinning Down Electronic Effects Using Laser-Flash Photolysis in the Solid State. <i>Journal of the American Chemical Society</i> , 2016, 138, 2644-2648.	6.6	15
45	Crystal Fluidity Reflected by Fast Rotational Motion at the Core, Branches, and Peripheral Aromatic Groups of a Dendrimeric Molecular Rotor. <i>Journal of the American Chemical Society</i> , 2016, 138, 4650-4656.	6.6	53
46	Dynamic Characterization of Crystalline Supramolecular Rotors Assembled through Halogen Bonding. <i>Journal of the American Chemical Society</i> , 2015, 137, 15386-15389.	6.6	88
47	Thermodynamic Evaluation of Aromatic CH/π Interactions and Rotational Entropy in a Molecular Rotor. <i>Journal of the American Chemical Society</i> , 2015, 137, 2175-2178.	6.6	50
48	Large-Scale Green Chemical Synthesis of Adjacent Quaternary Chiral Centers by Continuous Flow Photodecarbonylation of Aqueous Suspensions of Nanocrystalline Ketones. <i>Journal of the American Chemical Society</i> , 2015, 137, 1679-1684.	6.6	28
49	Crystalline arrays of molecular rotors with TIPS-trityl and phenolic-trityl stators using phenylene, 1,2-difluorophenylene and pyridine rotators. <i>RSC Advances</i> , 2015, 5, 55201-55208.	1.7	21
50	Structure-Reactivity Correlations and Mechanistic Understanding of the Photorearrangement and Photosensitive Effect of $\hat{\nu}$ ±-Santonin and Its Derivatives in Solutions, Crystals, and Nanocrystalline Suspensions. <i>Crystal Growth and Design</i> , 2015, 15, 1983-1990.	1.4	53
51	Phosphine-Mediated Iterative Arene Homologation Using Allenes. <i>Journal of the American Chemical Society</i> , 2015, 137, 11258-11261.	6.6	40
52	Stereospecific Synthesis of Substituted Aziridines by a Crystal-to-Crystal Photodenitrogenation of $\hat{\nu}$ 2-1,2,3-Triazolines. <i>Organic Letters</i> , 2015, 17, 4568-4571.	2.4	19
53	One-Pot Synthesis of Nuevamine Aza-Analogues by Combined Use of an Oxidative Ugi Type Reaction and Aza-Diels-Alder Cycloaddition. <i>Synlett</i> , 2014, 25, 403-406.	1.0	11
54	Naphthalene Diimide Based Materials with Adjustable Redox Potentials: Evaluation for Organic Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2014, 26, 7151-7157.	3.2	141

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55	Photochromic Molecular Gyroscope with Solid State Rotational States Determined by an Azobenzene Bridge. <i>Journal of Organic Chemistry</i> , 2014, 79, 1611-1619.	1.7	69
56	A fullerene-carbene adduct as a crystalline molecular rotor: remarkable behavior of a spherically-shaped rotator. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 12980-12986.	1.3	8
57	Rotation of a Bulky Triptycene in the Solid State: Toward Engineered Nanoscale Artificial Molecular Machines. <i>Journal of the American Chemical Society</i> , 2014, 136, 8871-8874.	6.6	62
58	Engineered Photochromism in Crystalline Salicylidene Anilines by Facilitating Rotation to Reach the Colored <i>trans</i> -Keto Form. <i>Crystal Growth and Design</i> , 2014, 14, 3667-3673.	1.4	25
59	Synthesis and Solid-State Characterization of Self-Assembled Macrocyclic Molecular Rotors of Bis(dithiocarbamate) Ligands with Diorganotin(IV). <i>Organometallics</i> , 2014, 33, 354-362.	1.1	27
60	Conformational Polymorphism and Isomorphism of Molecular Rotors with Fluoroaromatic Rotators and Mestranol Stators. <i>Crystal Growth and Design</i> , 2013, 13, 5107-5115.	1.4	23
61	Photoinduced and Thermal Denitrogenation of Bulky Triazoline Crystals: Insights into Solid-to-Solid Transformation. <i>Journal of the American Chemical Society</i> , 2013, 135, 6626-6632.	6.6	52
62	Synthesis, Rotational Dynamics, and Photophysical Characterization of a Crystalline Linearly Conjugated Phenyleneethynylene Molecular Dirotor. <i>Journal of Organic Chemistry</i> , 2013, 78, 5293-5302.	1.7	33
63	Amphidynamic Crystals of a Steroidal Bicyclo[2.2.2]octane Rotor: A High Symmetry Group That Rotates Faster than Smaller Methyl and Methoxy Groups. <i>Journal of the American Chemical Society</i> , 2013, 135, 10388-10395.	6.6	62
64	Solid-state photochemistry of crystalline pyrazolines: reliable generation and reactivity control of 1,3-biradicals and their potential for the green chemistry synthesis of substituted cyclopropanes. <i>Photochemical and Photobiological Sciences</i> , 2012, 11, 1929-1937.	1.6	12
65	Reaction Mechanism in Crystalline Solids: Kinetics and Conformational Dynamics of the Norrish Type II Biradicals from 1-Adamantyl- <i>p</i> -Methoxyacetophenone. <i>Journal of the American Chemical Society</i> , 2012, 134, 1115-1123.	6.6	16
66	Crystals and Aggregates of a Molecular Tetrarotor with Multiple Trityl Embraces Derived from Tetraphenyladamantane. <i>Crystal Growth and Design</i> , 2012, 12, 3792-3798.	1.4	10
67	NMR and X-ray Study Revealing the Rigidity of Zeolitic Imidazolate Frameworks. <i>Journal of Physical Chemistry C</i> , 2012, 116, 13307-13312.	1.5	150
68	Toward Crystalline Molecular Rotors with Linearly Conjugated Diethynyl-Phenylene Rotators and Pentiptycene Stators. <i>Journal of Organic Chemistry</i> , 2012, 77, 7428-7434.	1.7	15
69	Dynamics of Molecular Rotors Confined in Two Dimensions: Transition from a 2D Rotational Glass to a 2D Rotational Fluid in a Periodic Mesoporous Organosilica. <i>Journal of Physical Chemistry B</i> , 2012, 116, 1623-1632.	1.2	47
70	Crystalline molecular machines: function, phase order, dimensionality, and composition. <i>Chemical Society Reviews</i> , 2012, 41, 1892-1910.	18.7	347
71	Design and Evaluation of a Crystalline Hybrid of Molecular Conductors and Molecular Rotors. <i>Journal of the American Chemical Society</i> , 2012, 134, 7880-7891.	6.6	52
72	Synthesis and Evaluation of Molecular Rotors with Large and Bulky <i>tert</i> -Butyldiphenylsilyloxy-Substituted Trityl Stators. <i>Journal of Organic Chemistry</i> , 2012, 77, 6887-6894.	1.7	20

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73	Efficient Aziridine Synthesis in Metastable Crystalline Phases by Photoinduced Denitrogenation of Crystalline Triazolines. <i>Organic Letters</i> , 2012, 14, 3874-3877.	2.4	29
74	Ultrafast Spectroscopic Observation of a Quantum Chain Reaction: The Photodecarbonylation of Nanocrystalline Diphenylcyclopropanone. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 81-86.	2.1	13
75	Stable radicals during photodecarbonylations of trityl-alkyl ketones enable solid state reactions through primary and secondary radical centers. <i>Photochemical and Photobiological Sciences</i> , 2011, 10, 1731-1734.	1.6	5
76	Steady state and transient kinetics in crystalline solids: the photochemistry of nanocrystalline 1,1,3-triphenyl-3-hydroxy-2-indanone. <i>Chemical Science</i> , 2011, 2, 1497.	3.7	17
77	The synthesis and stereospecific solid-state photodecarbonylation of hexasubstituted meso- and d,l-ketones. <i>Photochemical and Photobiological Sciences</i> , 2011, 10, 1480-1487.	1.6	12
78	Synthesis and Solid-State Rotational Dynamics of Molecular Gyroscopes with a Robust and Low Density Structure Built with a Phenylene Rotator and a Tri(<i>meta</i> -terphenyl)methyl Stator. <i>Crystal Growth and Design</i> , 2011, 11, 2654-2659.	1.4	24
79	Anisochronous Dynamics in a Crystalline Array of Steroidal Molecular Rotors: Evidence of Correlated Motion within 1D Helical Domains. <i>Journal of the American Chemical Society</i> , 2011, 133, 7280-7283.	6.6	64
80	Oxyallyl Exposed: An Open-Shell Singlet with Picosecond Lifetimes in Solution but Persistent in Crystals of a Cyclobutanedione Precursor. <i>Journal of the American Chemical Society</i> , 2011, 133, 2342-2345.	6.6	28
81	Excited State Kinetics in Crystalline Solids: Self-Quenching in Nanocrystals of 4,4'-Disubstituted Benzophenone Triplets Occurs by a Reductive Quenching Mechanism. <i>Journal of the American Chemical Society</i> , 2011, 133, 17296-17306.	6.6	31
82	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. <i>Journal of the American Chemical Society</i> , 2011, 133, 6371-6379.	6.6	98
83	Synthesis of Bridged Molecular Gyroscopes with Closed Topologies: Triple One-Pot Macrocyclization. <i>Journal of Organic Chemistry</i> , 2011, 76, 8355-8363.	1.7	36
84	Framework mobility in the metal-organic framework crystal IRMOF-3: Evidence for aromatic ring and amine rotation. <i>Journal of Molecular Structure</i> , 2011, 1004, 94-101.	1.8	68
85	Ring strain release as a strategy to enable the singlet state photodecarbonylation of crystalline 1,4-cyclobutanediones. <i>Journal of Physical Organic Chemistry</i> , 2011, 24, 883-888.	0.9	16
86	Efficient Utilization of Higher-Lying Excited States to Trigger Charge-Transfer Events. <i>Chemistry - A European Journal</i> , 2010, 16, 9638-9645.	1.7	36
87	Photochemical reaction mechanisms and kinetics with molecular nanocrystals: surface quenching of triplet benzophenone nanocrystals. <i>Journal of Physical Organic Chemistry</i> , 2010, 23, 376-381.	0.9	9
88	Symmetry and dynamics of molecular rotors in amphidynamic molecular crystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 14973-14977.	3.3	109
89	Solid-State Molecular Rotors with Perdeuterated Stators: Mechanistic Insights from Biphenylene Rotational Dynamics in Ordered and Disordered Crystal Forms. <i>Journal of Organic Chemistry</i> , 2010, 75, 2482-2491.	1.7	33
90	The Missing Link Between Molecular Triplets and Spin-Polarized Free Radicals: Room Temperature Triplet States of Nanocrystalline Radical Pairs. <i>Journal of the American Chemical Society</i> , 2010, 132, 82-84.	6.6	33

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91	Synthesis and solid state characterization of molecular rotors with steroidal stators: ethisterone and norethisterone. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 2993.	1.5	28
92	The entropic enlightenment of organic photochemistry: strategic modifications of intrinsic decay pathways using an information-based approach. <i>Photochemical and Photobiological Sciences</i> , 2010, 9, 1574-1588.	1.6	12
93	Dendritic Porphyrin-Fullerene Conjugates: Efficient Light Harvesting and Charge Transfer Events. <i>Chemistry - A European Journal</i> , 2009, 15, 12223-12233.	1.7	54
94	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. <i>Journal of the American Chemical Society</i> , 2009, 131, 8425-8433.	6.6	25
95	Photonic Amplification by a Singlet-State Quantum Chain Reaction in the Photodecarbonylation of Crystalline Diarylcyclopropenones. <i>Journal of the American Chemical Society</i> , 2009, 131, 11606-11614.	6.6	58
96	Synthesis, Characterization, and Rotational Dynamics of Crystalline Molecular Compasses with N-Heterocyclic Rotators. <i>Journal of Organic Chemistry</i> , 2009, 74, 8554-8565.	1.7	34
97	Photodecarbonylation of Ketodiacids as Ammonium Salts: Efficient Formation of C-C Bonds Between Adjacent Quaternary Centers in the Crystalline State. <i>Journal of Organic Chemistry</i> , 2009, 74, 2476-2480.	1.7	9
98	Engineering Crystal Packing and Internal Dynamics in Molecular Gyroscopes by Refining their Components. Fast Exchange of a Phenylene Rotator by ^2H NMR. <i>Crystal Growth and Design</i> , 2009, 9, 3124-3128.	1.4	45
99	Synthesis, properties, and LED performance of highly luminescent metal complexes containing indolizino[3,4,5-ab]isoindoles. <i>Journal of Materials Chemistry</i> , 2009, 19, 5826.	6.7	21
100	Photochemical generation, intramolecular reactions, and spectroscopic detection of oxonium ylide and carbene intermediates in a crystalline ortho-(1,3-dioxolan-2-yl)-diaryldiazomethane. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 1106.	1.5	14
101	Synthesis and solid-state dynamics of molecular dirotors. <i>Tetrahedron</i> , 2008, 64, 8336-8345.	1.0	14
102	Nanoscale gadgets. <i>Nature Materials</i> , 2008, 7, 431-432.	13.3	40
103	Diastereoselective synthesis and spin-dependent photodecarbonylation of di(3-phenyl-2-pyrrolidinon-3-yl)ketones: synthesis of nonadjacent and adjacent stereogenic quaternary centers. <i>Chemical Communications</i> , 2008, , 193-195.	2.2	10
104	Solid-State Photodecarbonylation of Diphenylcyclopropenone: A Quantum Chain Process Made Possible by Ultrafast Energy Transfer. <i>Journal of the American Chemical Society</i> , 2008, 130, 1140-1141.	6.6	44
105	Amphidynamic Character of Crystalline MOF-5: Rotational Dynamics of Terephthalate Phenylenes in a Free-Volume, Sterically Unhindered Environment. <i>Journal of the American Chemical Society</i> , 2008, 130, 3246-3247.	6.6	229
106	Unexpected Solid-State Photochemistry of an I^{\pm} -Thiophenyl- I^{\pm} -Thiophenyl-dioxo-Substituted Ketone. <i>Journal of Organic Chemistry</i> , 2008, 73, 638-643.	1.7	12
107	Rotational Dynamics in a Crystalline Molecular Gyroscope by Variable-Temperature ^{13}C NMR, ^2H NMR, X-Ray Diffraction, and Force Field Calculations. <i>Journal of the American Chemical Society</i> , 2007, 129, 839-845.	6.6	62
108	The Photoarrangement of I^{\pm} -Santonin is a Single-Crystal-to-Single-Crystal Reaction: A Long Kept Secret in Solid-State Organic Chemistry Revealed. <i>Journal of the American Chemical Society</i> , 2007, 129, 9846-9847.	6.6	99

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109	Pump-probe spectroscopy and circular dichroism of nanocrystalline benzophenone towards absolute kinetic measurements in solid state photochemical reactions. <i>Chemical Communications</i> , 2007, , 4266.	2.2	37
110	Synthesis of a Triply-Bridged Molecular Gyroscope by a Directed Meridional Cyclization Strategy. <i>Organic Letters</i> , 2007, 9, 3559-3561.	2.4	62
111	Importance of Correlated Motions on the Low Barrier Rotational Potentials of Crystalline Molecular Gyroscopes. <i>Journal of the American Chemical Society</i> , 2007, 129, 3110-3117.	6.6	58
112	Photodecarbonylation of 1,3-Dithiophenyl Propanone: Using Nanocrystals to Overcome the Filtering Effect of Highly Absorbing Trace Impurities. <i>Organic Letters</i> , 2007, 9, 4351-4354.	2.4	16
113	Parallel Syntheses of (+) and (-) Cuparenone by Radical Combination in Crystalline Solids. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 6485-6487.	7.2	68
114	Molecular Crystals on the Move: From Single-Crystal to Single-Crystal Photoreactions to Molecular Machinery. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 8945-8947.	7.2	194
115	Norrish Type I vs. Norrish-Yang Type II in the Solid State Photochemistry of CIS-2,6-DI(1-Cyclohexenyl)-Cyclohexanone: A Computational Study. <i>Molecular Crystals and Liquid Crystals</i> , 2006, 456, 15-24.	0.4	5
116	Combination vs. disproportionation in dialkyl biradicals. Selectivity reversal in a crystalline solid. <i>Photochemical and Photobiological Sciences</i> , 2006, 5, 449.	1.6	13
117	Crystalline Molecular Machines: A Quest Toward Solid-State Dynamics and Function. <i>Accounts of Chemical Research</i> , 2006, 39, 413-422.	7.6	299
118	Large-Scale Photochemical Reactions of Nanocrystalline Suspensions: A Promising Green Chemistry Method. <i>Organic Letters</i> , 2006, 8, 2615-2617.	2.4	82
119	Improved Physical Properties and Rotational Dynamics in a Molecular Gyroscope with an Asymmetric Stator Structure. <i>Organic Letters</i> , 2006, 8, 3417-3420.	2.4	30
120	Crystalline Molecular Gyroscopes: The Effects of Subtle Molecular Differences on the Crystal Packing of Triphenylmethyl and Triphenylsilyl Stators. <i>Molecular Crystals and Liquid Crystals</i> , 2006, 456, 221-230.	0.4	7
121	Engineering Stereospecific Reactions in Crystals: Synthesis of Compounds with Adjacent Stereogenic Quaternary Centers by Photodecarbonylation of Crystalline Ketones. <i>Topics in Stereochemistry</i> , 2006, , 205-253.	2.0	27
122	Dipolar rotor-rotor interactions in a difluorobenzene molecular rotor crystal. <i>Physical Review B</i> , 2006, 74, .	1.1	72
123	Crystalline Molecular Machines: Encoding Supramolecular Dynamics into Molecular Structure. <i>ChemInform</i> , 2005, 36, no.	0.1	0
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125	Dielectric response of a dipolar molecular rotor crystal. <i>Physical Review B</i> , 2005, 72, .	1.1	92
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