Arunkumar Natarajan

List of Publications by Year
in descending order

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37	1,669	361413 20	361022 35
papers	citations	h-index	g-index

43	43	43	1513
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Photophysicochemical Processes Directed Within Nano-Containers. Structure and Bonding, 2020, , 321-369.	1.0	4
2	Fluorescence phenomena in nerve-labeling styryl-type dyes. Journal of Photochemistry and Photobiology A: Chemistry, 2016, 316, 104-116.	3.9	2
3	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
4	Synthesis, chemical reactivity, and photophysical properties of 2â€²,7â€² phenylated rhodamine dyes. Tetrahedron Letters, 2014, 55, 4222-4226.	1.4	2
5	Regioselective photodimerization of pyridyl-butadienes within cucurbit[8]uril cavities. Organic and Biomolecular Chemistry, 2012, 10, 9219.	2.8	18
6	Pyrophthalones as Blue Wavelength Absorbers in Thermoplastic Media. Photochemistry and Photobiology, 2012, 88, 250-256.	2.5	0
7	Stable radicals during photodecarbonylations of trityl-alkyl ketones enable solid state reactions through primary and secondary radical centers. Photochemical and Photobiological Sciences, 2011, 10, 1731-1734.	2.9	5
8	The synthesis and stereospecific solid-state photodecarbonylation of hexasubstituted meso- and d,l-ketones. Photochemical and Photobiological Sciences, 2011, 10, 1480-1487.	2.9	12
9	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
10	Radical pairs with rotational fluidity in the photochemical reaction of acetophenone and cyclohexane in the zeolite NAY: a 13C CPMAS NMR and product analysis study. Organic and Biomolecular Chemistry, 2009, 7, 2322.	2.8	4
11	Diastereoselective synthesis and spin-dependent photodecarbonylation of di(3-phenyl-2-pyrrolidinon-3-yl)ketones: synthesis of nonadjacent and adjacent stereogenic quaternary centers. Chemical Communications, 2008, , 193-195.	4.1	10
12	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
13	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
14	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
15	Synthesis of a Triply-Bridged Molecular Gyroscope by a Directed Meridional Cyclization Strategy. Organic Letters, 2007, 9, 3559-3561.	4.6	62
16	Preorientation of Olefins toward a Single Photodimer:â€‰ Cucurbituril-Mediated Photodimerization of Protonated Azastilbenes in Water. Langmuir, 2007, 23, 7545-7554.	3.5	97
17	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
18	Controlling Photoreactions with Restricted Spaces and Weak Intermolecular Forces:Â Exquisite Selectivity during Oxidation of Olefins by Singlet Oxygen. Journal of the American Chemical Society, 2007, 129, 4132-4133.	13.7	166

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19	Regioselective Photodimerization of Cinnamic Acids in Water:Â Templation with Cucurbiturils. Langmuir, 2006, 22, 7605-7609.	3.5	79
20	Asymmetric induction during photocyclization of chiral and achiral Î±-oxoamides within achiral zeolites. Organic and Biomolecular Chemistry, 2006, 4, 4533-4542.	2.8	20
21	Asymmetric induction during electron transfer mediated photoreduction of carbonyl compounds: role of zeolites. Organic and Biomolecular Chemistry, 2006, 4, 1561.	2.8	10
22	Volume-Demanding Cisâ^'Trans Isomerization of 1,2-Diaryl Olefins in the Solid State. Journal of Organic Chemistry, 2006, 71, 1055-1059.	3.2	43
23	Templating photodimerization of stilbazoles with water-soluble calixarenes. Photochemical and Photobiological Sciences, 2006, 5, 925.	2.9	36
24	Template-Directed Photodimerization of trans-1,2-Bis(n-pyridyl)ethylenes and Stilbazoles in Water.. ChemInform, 2006, 37, no.	0.0	0
25	A Comparison Between Zeolites and Crystalline State as Reaction Media: Asymmetric Induction During Photocyclization of Î±-Mesitylacetophenones to 2-Indanols. Molecular Crystals and Liquid Crystals, 2006, 456, 71-84.	0.9	5
26	Large Molecular Motions Are Tolerated in Crystals of Diamine Double Salt oftrans-Chlorocinnamic Acids withtrans-1,2-Diaminocyclohexane. Organic Letters, 2005, 7, 1895-1898.	4.6	53
27	Viability of a Covalent Chiral Auxiliary Method to Induce Asymmetric Induction in Solid-State Photoreactions Explored. Crystal Growth and Design, 2005, 5, 2348-2355.	3.0	11
28	Asymmetric Induction during Yang Cyclization of Î±-Oxoamides:Â The Power of a Covalently Linked Chiral Auxiliary Is Enhanced in the Crystalline State. Journal of the American Chemical Society, 2005, 127, 3568-3576.	13.7	58
29	Templating Photodimerization oftrans-Cinnamic Acids with Cucurbit[8]uril and Î³-Cyclodextrin. Organic Letters, 2005, 7, 529-532.	4.6	159
30	Template directed photodimerization of trans-1,2-bis(n-pyridyl)ethylenes and stilbazoles in water. Chemical Communications, 2005, , 4542.	4.1	143
31	Medium Effects on Photochemical Processes. Molecular and Supramolecular Photochemistry, 2004, , 553-618.	0.1	1
32	Chiral Photochemistry Within Zeolites. Molecular and Supramolecular Photochemistry, 2004, , 563-631.	0.1	1
33	Asymmetric Photoreactions within Zeolites: Role of Confinement and Alkali Metal Ions. ChemInform, 2003, 34, no.	0.0	0
34	Asymmetric Photoreactions within Zeolites:â€‰ Role of Confinement and Alkali Metal Ions. Accounts of Chemical Research, 2003, 36, 509-521.	15.6	168
35	Enhanced Enantio- and Diastereoselectivity via Confinement and Cation Binding:Â Yang Photocyclization of 2-Benzoyladamantane Derivatives within Zeolitesâ€. Journal of Organic Chemistry, 2002, 67, 8339-8350.	3.2	23
36	Control of Enantioselectivity in the Photochemical Conversion of Î±-Oxoamides into Î²-Lactam Derivatives. Organic Letters, 2002, 4, 1443-1446.	4.6	87

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37	The influence of chiral auxiliaries is enhanced within zeolites. Tetrahedron Letters, 2000, 41, 8231-8235.	1.4	28