

# Arunkumar Natarajan

## List of Publications by Year in descending order

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37  
papers

1,669  
citations

361045

20  
h-index

360668

35  
g-index

43  
all docs

43  
docs citations

43  
times ranked

1513  
citing authors

#	ARTICLE	IF	CITATIONS
1	Asymmetric Photoreactions within Zeolites: Role of Confinement and Alkali Metal Ions. <i>Accounts of Chemical Research</i> , 2003, 36, 509-521.	7.6	168
2	Controlling Photoreactions with Restricted Spaces and Weak Intermolecular Forces: Exquisite Selectivity during Oxidation of Olefins by Singlet Oxygen. <i>Journal of the American Chemical Society</i> , 2007, 129, 4132-4133.	6.6	166
3	Templating Photodimerization of <i>trans</i> -Cinnamic Acids with Cucurbit[8]uril and $\beta$ -Cyclodextrin. <i>Organic Letters</i> , 2005, 7, 529-532.	2.4	159
4	Template directed photodimerization of <i>trans</i> -1,2-bis( <i>n</i> -pyridyl)ethylenes and stilbazoles in water. <i>Chemical Communications</i> , 2005, , 4542.	2.2	143
5	The Photoarrangement of $\beta$ -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
6	Preorientation of Olefins toward a Single Photodimer: Cucurbituril-Mediated Photodimerization of Protonated Azastilbenes in Water. <i>Langmuir</i> , 2007, 23, 7545-7554.	1.6	97
7	Control of Enantioselectivity in the Photochemical Conversion of $\beta$ -Oxoamides into $\beta$ -Lactam Derivatives. <i>Organic Letters</i> , 2002, 4, 1443-1446.	2.4	87
8	Regioselective Photodimerization of Cinnamic Acids in Water: Templation with Cucurbiturils. <i>Langmuir</i> , 2006, 22, 7605-7609.	1.6	79
9	Parallel Syntheses of (+) and (–) Cuparenone by Radical Combination in Crystalline Solids. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 6485-6487.	7.2	68
10	Synthesis of a Triply-Bridged Molecular Gyroscope by a Directed Meridional Cyclization Strategy. <i>Organic Letters</i> , 2007, 9, 3559-3561.	2.4	62
11	Asymmetric Induction during Yang Cyclization of $\beta$ -Oxoamides: The Power of a Covalently Linked Chiral Auxiliary Is Enhanced in the Crystalline State. <i>Journal of the American Chemical Society</i> , 2005, 127, 3568-3576.	6.6	58
12	Large Molecular Motions Are Tolerated in Crystals of Diamine Double Salt of <i>trans</i> -Chlorocinnamic Acids with <i>trans</i> -1,2-Diaminocyclohexane. <i>Organic Letters</i> , 2005, 7, 1895-1898.	2.4	53
13	Structure-Reactivity Correlations and Mechanistic Understanding of the Photorearrangement and Photosensitized Effect of $\beta$ -Santonin and Its Derivatives in Solutions, Crystals, and Nanocrystalline Suspensions. <i>Crystal Growth and Design</i> , 2015, 15, 1983-1990.	1.4	53
14	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
15	Volume-Demanding <i>Cis</i> - <i>Trans</i> Isomerization of 1,2-Diaryl Olefins in the Solid State. <i>Journal of Organic Chemistry</i> , 2006, 71, 1055-1059.	1.7	43
16	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
17	Templating photodimerization of stilbazoles with water-soluble calixarenes. <i>Photochemical and Photobiological Sciences</i> , 2006, 5, 925.	1.6	36
18	The influence of chiral auxiliaries is enhanced within zeolites. <i>Tetrahedron Letters</i> , 2000, 41, 8231-8235.	0.7	28

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19	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
20	Enhanced Enantio- and Diastereoselectivity via Confinement and Cation Binding: Yang Photocyclization of 2-Benzoyladamantane Derivatives within Zeolites. <i>Journal of Organic Chemistry</i> , 2002, 67, 8339-8350.	1.7	23
21	Asymmetric induction during photocyclization of chiral and achiral $\pm$ -oxoamides within achiral zeolites. <i>Organic and Biomolecular Chemistry</i> , 2006, 4, 4533-4542.	1.5	20
22	Regioselective photodimerization of pyridyl-butadienes within cucurbit[8]uril cavities. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 9219.	1.5	18
23	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
24	Viability of a Covalent Chiral Auxiliary Method to Induce Asymmetric Induction in Solid-State Photoreactions Explored. <i>Crystal Growth and Design</i> , 2005, 5, 2348-2355.	1.4	11
25	Asymmetric induction during electron transfer mediated photoreduction of carbonyl compounds: role of zeolites. <i>Organic and Biomolecular Chemistry</i> , 2006, 4, 1561.	1.5	10
26	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
27	A Comparison Between Zeolites and Crystalline State as Reaction Media: Asymmetric Induction During Photocyclization of $\pm$ -Mesitylacetophenones to 2-Indanols. <i>Molecular Crystals and Liquid Crystals</i> , 2006, 456, 71-84.	0.4	5
28	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
29	Radical pairs with rotational fluidity in the photochemical reaction of acetophenone and cyclohexane in the zeolite NAY: a $^{13}\text{C}$ CPMAS NMR and product analysis study. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 2322.	1.5	4
30	Photophysicochemical Processes Directed Within Nano-Containers. <i>Structure and Bonding</i> , 2020, , 321-369.	1.0	4
31	Synthesis, chemical reactivity, and photophysical properties of $2,7$ -phenylated rhodamine dyes. <i>Tetrahedron Letters</i> , 2014, 55, 4222-4226.	0.7	2
32	Fluorescence phenomena in nerve-labeling styryl-type dyes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 316, 104-116.	2.0	2
33	Medium Effects on Photochemical Processes. <i>Molecular and Supramolecular Photochemistry</i> , 2004, , 553-618.	0.1	1
34	Chiral Photochemistry Within Zeolites. <i>Molecular and Supramolecular Photochemistry</i> , 2004, , 563-631.	0.1	1
35	Asymmetric Photoreactions within Zeolites: Role of Confinement and Alkali Metal Ions. <i>ChemInform</i> , 2003, 34, no.	0.1	0
36	Template-Directed Photodimerization of trans-1,2-Bis(n-pyridyl)ethylenes and Stilbazoles in Water.. <i>ChemInform</i> , 2006, 37, no.	0.1	0

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37	Pyrophthalones as Blue Wavelength Absorbers in Thermoplastic Media. Photochemistry and Photobiology, 2012, 88, 250-256.	1.3	0