

Ashok Keerthi

List of Publications by Year in descending order

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33
papers

1,887
citations

430874

18
h-index

377865

34
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all docs

35
docs citations

35
times ranked

2945
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular transport through capillaries made with atomic-scale precision. <i>Nature</i> , 2016, 538, 222-225.	27.8	483
2	Magnetic edge states and coherent manipulation of graphene nanoribbons. <i>Nature</i> , 2018, 557, 691-695.	27.8	232
3	Complete steric exclusion of ions and proton transport through confined monolayer water. <i>Science</i> , 2019, 363, 145-148.	12.6	207
4	Molecular streaming and its voltage control in Ångström-scale channels. <i>Nature</i> , 2019, 567, 87-90.	27.8	170
5	Ballistic molecular transport through two-dimensional channels. <i>Nature</i> , 2018, 558, 420-424.	27.8	139
6	On-Surface Synthesis of a Nonplanar Porous Nanographene. <i>Journal of the American Chemical Society</i> , 2019, 141, 7726-7730.	13.7	61
7	Water friction in nanofluidic channels made from two-dimensional crystals. <i>Nature Communications</i> , 2021, 12, 3092.	12.8	59
8	Capacitance of Basal Plane and Edge-Oriented Highly Ordered Pyrolytic Graphite: Specific Ion Effects. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 617-623.	4.6	50
9	Low Band Gap Thiophene-Perylene Diimide Systems with Tunable Charge Transport Properties. <i>Organic Letters</i> , 2011, 13, 18-21.	4.6	44
10	Edge Functionalization of Structurally Defined Graphene Nanoribbons for Modulating the Self-Assembled Structures. <i>Journal of the American Chemical Society</i> , 2017, 139, 16454-16457.	13.7	43
11	Regioisomers of Perylenediimide: Synthesis, Photophysical, and Electrochemical Properties. <i>Journal of Physical Chemistry B</i> , 2012, 116, 4603-4614.	2.6	42
12	Synthesis of Perylene Dyes with Multiple Triphenylamine Substituents. <i>Chemistry - A European Journal</i> , 2012, 18, 11669-11676.	3.3	41
13	Enhanced nanofluidic transport in activated carbon nanoconduits. <i>Nature Materials</i> , 2022, 21, 696-702.	27.5	36
14	Layered Electron Acceptors by Dimerization of Acenes End-Capped with 1,2,5-Thiadiazoles. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 941-944.	13.8	32
15	Cyclization of Pyrene Oligomers: Cyclohexa[1,3]pyrenylene. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 418-421.	13.8	30
16	Gas flow through atomic-scale apertures. <i>Science Advances</i> , 2020, 6, .	10.3	22
17	Translocation of DNA through Ultrathin Nanoslits. <i>Advanced Materials</i> , 2021, 33, e2007682.	21.0	22
18	Architectural influence of carbazole push-pull dyes on dye sensitized solar cells. <i>Dyes and Pigments</i> , 2013, 99, 787-797.	3.7	20

#	ARTICLE	IF	CITATIONS
19	Hexa <i>peri</i> hexabenzocoronene with Different Acceptor Units for Tuning Optoelectronic Properties. <i>Chemistry - an Asian Journal</i> , 2016, 11, 2710-2714.	3.3	19
20	On-Surface Synthesis of a Chiral Graphene Nanoribbon with Mixed Edge Structure. <i>Chemistry - an Asian Journal</i> , 2020, 15, 3807-3811.	3.3	17
21	Angstrofluidics: Walking to the Limit. <i>Annual Review of Materials Research</i> , 2022, 52, 189-218.	9.3	16
22	Layered Electron Acceptors by Dimerization of Acenes End-Capped with 1,2,5-Thiadiazoles. <i>Angewandte Chemie</i> , 2016, 128, 953-956.	2.0	15
23	On-Surface Dehydro-Diels-Alder Reaction of Dibromo-bis(phenylethynyl)benzene. <i>Journal of the American Chemical Society</i> , 2020, 142, 1721-1725.	13.7	15
24	Dithieno[2,3-d;2',3'-d]benzo[2,1-b;3,4-b']dithiophene: a novel building-block for a planar copolymer. <i>Polymer Chemistry</i> , 2016, 7, 1545-1548.	3.9	13
25	Synthesis and photophysical properties of pyrene-based green fluorescent dyes: butterfly-shaped architectures. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 7914-7918.	2.8	11
26	The Design of Radical Stacks: Nitronyl-Nitroxide-Substituted Heteropentacenes. <i>ChemistryOpen</i> , 2017, 6, 642-652.	1.9	9
27	Synthesis of a quinoidal dithieno[2,3-d;2',3'-d]benzo[2,1-b;3,4-b']-dithiophene based open-shell singlet biradicaloid. <i>Organic Chemistry Frontiers</i> , 2017, 4, 18-21.	4.5	8
28	Multiwavelength Raman spectroscopy of ultranarrow nanoribbons made by solution-mediated bottom-up approach. <i>Physical Review B</i> , 2019, 100, .	3.2	8
29	Hydrocarbon contamination in angstrom-scale channels. <i>Nanoscale</i> , 2021, 13, 9553-9560.	5.6	7
30	Synthesis of multi-donor dyes and influence of molecular design on dye-sensitized solar cells. <i>RSC Advances</i> , 2016, 6, 51807-51815.	3.6	3
31	Molecular Ordering of Dithieno[2,3-d;2',3'-d]benzo[2,1-b;3,4-b']dithiophenes for Field-Effect Transistors. <i>ACS Omega</i> , 2018, 3, 6513-6522.	3.5	3
32	Exploring Voltage Mediated Delamination of Suspended 2D Materials as a Cause of Commonly Observed Breakdown. <i>Journal of Physical Chemistry C</i> , 2020, 124, 430-435.	3.1	2
33	Pyrene Dynamics: Covalently Linked Dimers Accelerate the Kinetics from ns to ps and Produce Excimers. , 2016, , .		0