

Sunil Kumar

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

102
papers

2,771
citations

31
h-index

50
g-index

121
ext. papers

3,154
ext. citations

4.4
avg, IF

5.18
L-index

#	Paper	IF	Citations
102	Foldamers reveal and validate therapeutic targets associated with toxic β synuclein self-assembly.. <i>Nature Communications</i> , 2022 , 13, 2273	17.4	0
101	Protein mimetic amyloid inhibitor potently abrogates cancer-associated mutant p53 aggregation and restores tumor suppressor function. <i>Nature Communications</i> , 2021 , 12, 3962	17.4	5
100	Coupling and Optical Analysis of a Round-Cornered Square-Shaped Microresonator. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 8659	2.6	0
99	A tenuous, collisional atmosphere on Callisto. <i>Icarus</i> , 2021 , 368, 114597	3.8	2
98	Designed Cell-Penetrating Peptide Inhibitors of Amyloid-beta Aggregation and Cytotoxicity. <i>Cell Reports Physical Science</i> , 2020 , 1, 100014	6.1	16
97	Sub-stoichiometric inhibition of IAPP aggregation: a peptidomimetic approach to anti-amyloid agents. <i>RSC Chemical Biology</i> , 2020 , 1, 225-232	3	4
96	β -Helix-Mimetic Foldamers for Targeting HIV-1 TAR RNA. <i>Chemistry - A European Journal</i> , 2019 , 25, 7265-7269	4.6	8
95	Use of downstream fluid injection to reduce subsonic jet noise. <i>International Journal of Aeroacoustics</i> , 2019 , 18, 554-574	2.1	5
94	Flow field characteristics of a supersonic jet influenced by downstream microjet fluidic injection. <i>Aerospace Science and Technology</i> , 2019 , 93, 105281	4.9	7
93	Allosteric Activation Dictates PRC2 Activity Independent of Its Recruitment to Chromatin. <i>Molecular Cell</i> , 2018 , 70, 422-434.e6	17.6	67
92	Conformational switching within dynamic oligomers underpins toxic gain-of-function by diabetes-associated amyloid. <i>Nature Communications</i> , 2018 , 9, 1312	17.4	30
91	Peptidomimetic-Based Multidomain Targeting Offers Critical Evaluation of β Structure and Toxic Function. <i>Journal of the American Chemical Society</i> , 2018 , 140, 6562-6574	16.4	28
90	Effective in-field thermal conductivity of ferrofluids. <i>Journal of Applied Physics</i> , 2018 , 123, 043902	2.5	18
89	Jet Noise Reduction by Downstream Fluidic Injection: Effect of Injection Pressure Ratio and Number of Injection Ports 2018 ,		1
88	Interaction of Vortex with Bow Shock Wave: Computational Model, Experimental Validation, Enhanced Mixing. <i>AIAA Journal</i> , 2018 , 56, 3071-3085	2.1	3
87	Effect of rotation on quality factor of single-mode optical resonances in round-cornered square-shaped resonators 2018 ,		1
86	Design optimization of a single-mode microring resonator for label-free detection of biomarkers within a tunable spectral range of 2 nm 2018 ,		1

85	Teaching an old scaffold new recognition tricks: oligopyrrolamide antagonists of IAPP aggregation. <i>Organic and Biomolecular Chemistry</i> , 2018 , 16, 733-741	3.9	4
84	Positive Pressurization and Ventilation for Fighting Fires in High-Rise Structures with Multiple Stairwells. <i>Journal of Physics: Conference Series</i> , 2018 , 1107, 042037	0.3	
83	Directionally Targeted Jet Noise Suppression: Benefits of Asymmetric Downstream Fluidic Injection 2018 ,		2
82	Helix Mimetics as Modulators of Aβ Self-Assembly. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5744-5755	16.4	43
81	Positive Pressure Ventilation for fighting wind-driven high-rise fires: Simulation-based analysis and optimization. <i>Fire Safety Journal</i> , 2017 , 87, 57-64	3.3	15
80	Temperature Effects on Optical Resonances in Single-Mode Circular Ring and Squircular Resonators 2017 ,		1
79	Foldamer-Mediated Structural Rearrangement Attenuates Aβ Oligomerization and Cytotoxicity. <i>Journal of the American Chemical Society</i> , 2017 , 139, 17098-17108	16.4	35
78	Improvement of Positive Pressure Ventilation by optimizing stairwell door opening area. <i>Fire Safety Journal</i> , 2017 , 92, 195-198	3.3	7
77	Study of Shock Wave/Vortex Interaction for Supersonic Mixing Enhancement 2017 ,		1
76	Directional Noise Reduction via Asymmetric Downstream Fluidic Injection 2017 ,		1
75	Foldamer-mediated manipulation of a pre-amyloid toxin. <i>Nature Communications</i> , 2016 , 7, 11412	17.4	43
74	Effect of rounding corners on optical resonances in single-mode sharp-cornered microresonators. <i>Optics Letters</i> , 2016 , 41, 878-81	3	10
73	Multivalency in the recognition and antagonism of a HIV TAR RNA-TAT assembly using an aminoglycoside benzimidazole scaffold. <i>Organic and Biomolecular Chemistry</i> , 2016 , 14, 2052-6	3.9	33
72	Foldamer scaffolds suggest distinct structures are associated with alternative gains-of-function in a preamyloid toxin. <i>Chemical Communications</i> , 2016 , 52, 6391-4	5.8	14
71	Islet amyloid-induced cell death and bilayer integrity loss share a molecular origin targetable with oligopyridylamide-based helical mimetics. <i>Chemistry and Biology</i> , 2015 , 22, 369-78		40
70	Direct observations of field-induced assemblies in magnetite ferrofluids. <i>Journal of Applied Physics</i> , 2015 , 117, 103907	2.5	24
69	Influence of linker length in shape recognition of B* DNA by dimeric aminoglycosides. <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 3105-9	3.4	12
68	Amphiphilic oligoamide helix peptidomimetics inhibit islet amyloid polypeptide aggregation. <i>Tetrahedron Letters</i> , 2015 , 56, 3670-3673	2	24

67	Influence of linker length and composition on enzymatic activity and ribosomal binding of neomycin dimers. <i>Antimicrobial Agents and Chemotherapy</i> , 2015 , 59, 3899-905	5.9	18
66	Assessment of web-based interactive game system methodology for dissemination and diffusion to improve firefighter safety and wellness. <i>Fire Safety Journal</i> , 2015 , 72, 59-67	3.3	4
65	Multivalent Amino Sugars to Recognize Different TAR RNA Conformations. <i>MedChemComm</i> , 2014 , 5, 1235-1246	5	3
64	Folded small molecule manipulation of islet amyloid polypeptide. <i>Chemistry and Biology</i> , 2014 , 21, 775-81		21
63	Effective heat capacity of ferrofluids – Analytical approach. <i>International Journal of Thermal Sciences</i> , 2014 , 84, 267-274	4.1	26
62	Shape readout of AT-rich DNA by carbohydrates. <i>Biopolymers</i> , 2014 , 101, 720-32	2.2	5
61	Recognition of HIV-TAR RNA using neomycin-benzimidazole conjugates. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013 , 23, 5689-93	2.9	36
60	A foldamer approach to targeting membrane bound helical states of islet amyloid polypeptide. <i>Chemical Communications</i> , 2013 , 49, 4749-51	5.8	37
59	A fluorescence-based screen for ribosome binding antibiotics. <i>Analytical Biochemistry</i> , 2013 , 434, 300-7	3.1	34
58	Characterization of ribosomal binding and antibacterial activities using two orthogonal high-throughput screens. <i>Antimicrobial Agents and Chemotherapy</i> , 2013 , 57, 4717-26	5.9	12
57	Click dimers to target HIV TAR RNA conformation. <i>Biochemistry</i> , 2012 , 51, 2331-47	3.2	50
56	Neomycin-neomycin dimer: an all-carbohydrate scaffold with high affinity for AT-rich DNA duplexes. <i>Journal of the American Chemical Society</i> , 2011 , 133, 7361-75	16.4	60
55	Optimization of Positive Pressure Ventilation Tactic for Wind Driven High Rise Fires 2011 ,		2
54	Optical sensor for temperature measurement using bimetallic concept. <i>Optical Fiber Technology</i> , 2011 , 17, 315-320	2.4	6
53	Recognition of HIV TAR RNA by triazole linked neomycin dimers. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011 , 21, 4788-92	2.9	39
52	Optimization of a Single-Cell Solid-Oxide Fuel Cell Using Computational Fluid Dynamics. <i>Journal of Fuel Cell Science and Technology</i> , 2011 , 8,		6
51	Modification of Results From Computational-Fluid-Dynamics Simulations of Single-Cell Solid-Oxide Fuel Cells to Estimate Multicell Stack Performance. <i>Journal of Fuel Cell Science and Technology</i> , 2011 , 8,		1
50	Substituent effects on the reaction of beta-benzoylalanines with <i>Pseudomonas fluorescens</i> kynureninase. <i>Biochemistry</i> , 2010 , 49, 7913-9	3.2	14

49	Laser transport through thin scattering layers. <i>Applied Optics</i> , 2010 , 49, 358-68	0.2	7
48	Calorimetric and spectroscopic studies of aminoglycoside binding to AT-rich DNA triple helices. <i>Biochimie</i> , 2010 , 92, 514-29	4.6	31
47	Aminoglycoside binding to <i>Oxytricha nova</i> telomeric DNA. <i>Biochemistry</i> , 2010 , 49, 9891-903	3.2	57
46	Probing the recognition surface of a DNA triplex: binding studies with intercalator-neomycin conjugates. <i>Biochemistry</i> , 2010 , 49, 5540-52	3.2	46
45	Fuel Cells as an Alternative to Cold Ironing. <i>Journal of Fuel Cell Science and Technology</i> , 2009 , 6,		2
44	Molecular recognition of single-stranded RNA: neomycin binding to poly(A). <i>FEBS Letters</i> , 2009 , 583, 2269-75	3.8	42
43	Crystal structure of the Homo sapiens kynureninase-3-hydroxyhippuric acid inhibitor complex: insights into the molecular basis of kynureninase substrate specificity. <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 389-96	8.3	32
42	Optical Resonance in Dielectric Micro-Sphere for Temperature Measurement 2007 , 303		1
41	An Optical Fiber Biosensor for Monitoring Drug Delivery 2007 , 155		1
40	Heat Transfer in Ultrafast Laser Tissue Welding 2005 , 287		
39	Enhanced Intracellular Uptake of Indocyanine Green by Polymeric Nanoparticulate Delivery Systems. <i>Journal of Biomedical Nanotechnology</i> , 2005 , 1, 168-175	4	6
38	Noninvasive detection of inhomogeneities in turbid media with time-resolved log-slope analysis. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2004 , 84, 493-500	2.1	28
37	Spatial sensitivity profiles by time-resolved fluorescence Monte Carlo simulation 2003 , 4955, 581		
36	Monte Carlo simulation and experiments of pulsed radiative transfer. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2002 , 73, 159-168	2.1	77
35	Photochemical and Photothermal Model for Pulsed-Laser Ablation. <i>Journal of Thermophysics and Heat Transfer</i> , 2002 , 16, 193-199	1.3	14
34	Three-Dimensional Discrete Ordinates Method in Transient Radiative Transfer. <i>Journal of Thermophysics and Heat Transfer</i> , 2002 , 16, 289-296	1.3	64
33	Experimental and Numerical Studies of Short Pulse Propagation in Model Systems 2002 ,		2
32	Discrete-ordinates solution of short-pulsed laser transport in two-dimensional turbid media. <i>Applied Optics</i> , 2001 , 40, 3156-63	1.7	97

31	Equivalent isotropic scattering formulation for transient short-pulse radiative transfer in anisotropic scattering planar media. <i>Applied Optics</i> , 2000 , 39, 4411-7	1.7	31
30	Multidimensional Monte Carlo Simulation of Short-Pulse Laser Transport in Scattering Media. <i>Journal of Thermophysics and Heat Transfer</i> , 2000 , 14, 504-511	1.3	60
29	Experimental Modeling of Circular Hydraulic Jump by the Impingement of a Water Column on a Horizontal Disk. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 1999 , 121, 86-92	2.1	3
28	Microscale Aspects of Thermal Radiation Transport and Laser Applications. <i>Advances in Heat Transfer</i> , 1999 , 33, 187-294	1.9	77
27	Development and comparison of models for light-pulse transport through scattering-absorbing media. <i>Applied Optics</i> , 1999 , 38, 188-96	1.7	96
26	Modeling of Ultrashort Light Pulse Propagation in Light Scattering Media. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 1997 , 63, 895-900		1
25	Transient Radiation Transport in Participating Media Within a Rectangular Enclosure. <i>Journal of Thermophysics and Heat Transfer</i> , 1997 , 11, 409-414	1.3	45
24	Parametric aspects of electron-phonon temperature model for short pulse laser interactions with thin metallic films. <i>Journal of Applied Physics</i> , 1996 , 80, 675-680	2.5	4
23	Hyperbolic damped-wave models for transient light-pulse propagation in scattering media. <i>Applied Optics</i> , 1996 , 35, 3372-8	1.7	38
22	Experimental Evidence of Hyperbolic Heat Conduction in Processed Meat. <i>Journal of Heat Transfer</i> , 1995 , 117, 568-573	1.8	442
21	Dependent Scattering Properties of Woven Fibrous Insulations for Normal Incidence. <i>Journal of Heat Transfer</i> , 1995 , 117, 160-166	1.8	12
20	Thermal Conductivity of Thin Metallic Films. <i>Journal of Heat Transfer</i> , 1994 , 116, 28-34	1.8	52
19	Hyperbolic temperature profiles for laser surface interactions. <i>Journal of Applied Physics</i> , 1994 , 76, 5014-5021	2.1	38
18	Significance of Non-Fourier Heat Waves in Conduction. <i>Journal of Heat Transfer</i> , 1994 , 116, 221-224	1.8	113
17	Thermal Analysis of the Hot Dip-Coating Process. <i>Journal of Heat Transfer</i> , 1993 , 115, 453-460	1.8	8
16	Entrance pipe flow and heat transfer for a Bingham plastic. <i>International Journal of Heat and Mass Transfer</i> , 1993 , 36, 543-552	4.9	54
15	Numerical modeling of two-dimensional smoldering processes. <i>Combustion and Flame</i> , 1993 , 95, 170-182	3.3	26
14	Permeability of a fracture with cylindrical asperities. <i>Fluid Dynamics Research</i> , 1991 , 7, 131-137	1.2	22

13	Semiconductor-superconductor hybrid electronics. <i>Cryogenics</i> , 1990 , 30, 1014-1023	1.8	27
12	Dependent Absorption and Extinction of Radiation by Small Particles. <i>Journal of Heat Transfer</i> , 1990 , 112, 178-185	1.8	67
11	The Differential-Discrete-Ordinate Method for Solutions of the Equation of Radiative Transfer. <i>Journal of Heat Transfer</i> , 1990 , 112, 424-429	1.8	57
10	Analysis of Combined Radiation and Convection in a Particulate-Laden Liquid Film. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 1990 , 112, 293-300	2.3	31
9	Interference effects on scattering by parallel fibers at normal incidence. <i>Journal of Thermophysics and Heat Transfer</i> , 1990 , 4, 305-310	1.3	6
8	Fractal study and simulation of fracture roughness. <i>Geophysical Research Letters</i> , 1990 , 17, 701-704	4.9	13
7	Effective Diameter of Agglomerates for Radiative Extinction and Scattering. <i>Combustion Science and Technology</i> , 1989 , 66, 199-216	1.5	28
6	Radiative transfer in thermal insulations of hollow and coated fibers. <i>Journal of Thermophysics and Heat Transfer</i> , 1987 , 1, 289-295	1.3	8
5	Experiments on dependent scattering of radiation 1987 ,		2
4	Stability of a free convection density-extremum flow in a porous medium. <i>International Journal of Heat and Mass Transfer</i> , 1987 , 30, 351-361	4.9	2
3	On computing radiative heat flux distributions using the method. <i>International Journal of Heat and Mass Transfer</i> , 1986 , 29, 635-637	4.9	5
2	Radiative transport in a planar medium exposed to azimuthally unsymmetric incident radiation. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1986 , 35, 187-212	2.1	11
1	Allosteric activation dictates PRC2 activity independent of its recruitment to chromatin		3