

Biswajit Biswas

List of Publications by Year in descending order

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Version: 2024-02-01

106
papers

3,147
citations

331259

21
h-index

168136

53
g-index

109
all docs

109
docs citations

109
times ranked

3128
citing authors

#	ARTICLE	IF	CITATIONS
1	SIFT-Based Visual Tracking using Optical Flow and Belief Propagation Algorithm. Computer Journal, 2022, 65, 1-17.	1.5	7
2	Protonation State of Dopamine Neurotransmitter at the Aqueous Interface: Vibrational Sum Frequency Generation Spectroscopy Study. Langmuir, 2022, 38, 1380-1385.	1.6	8
3	A novel intuitionistic-near fuzzy sets based image fusion approach: development on hybrid MPI+OpenMP parallel model. Multimedia Tools and Applications, 2022, 81, 29699-29730.	2.6	2
4	Comparative genomics of Acinetobacter baumannii and therapeutic bacteriophages from a patient undergoing phage therapy. Nature Communications, 2022, 13, .	5.8	20
5	DNA-Induced Restructuring of Interfacial Water and the Hydrocarbon Chain of Different Forms of Fungicide at the Water Interface: Vibrational Sum Frequency Generation Study. Journal of Physical Chemistry C, 2021, 125, 3001-3008.	1.5	6
6	Signature of the surface hydrated proton and associated restructuring of water at model membrane interfaces: a vibrational sum frequency generation study. Physical Chemistry Chemical Physics, 2021, 23, 14764-14769.	1.3	3
7	Restructuring of Membrane Water and Phospholipids in Direct Interaction of Neurotransmitters with Model Membranes Associated with Synaptic Signaling: Interface-Selective Vibrational Sum Frequency Generation Study. Journal of Physical Chemistry Letters, 2021, 12, 2871-2879.	2.1	9
8	Skin Swabbing for Staphylococcus aureusâ€“Targeting Phages. Military Medicine, 2021, , .	0.4	1
9	Successful Treatment of Staphylococcus aureus Prosthetic Joint Infection with Bacteriophage Therapy. Viruses, 2021, 13, 1182.	1.5	46
10	Successful Intratracheal Treatment of Phage and Antibiotic Combination Therapy of a Multi-Drug Resistant Pseudomonas aeruginosa Murine Model. Antibiotics, 2021, 10, 946.	1.5	10
11	The enhanced dissociation and associated surface structure of the anesthetic propofol at the water interface: vibrational sum frequency generation study. Physical Chemistry Chemical Physics, 2021, 23, 24646-24651.	1.3	5
12	Medical image fusion using type-2 fuzzy and near-fuzzy set approach. International Journal of Computers and Applications, 2020, 42, 399-414.	0.8	1
13	The role of fluorocarbon group in the hydrogen bond network, photophysical and solvation dynamics of fluorinated molecules. Journal of Fluorine Chemistry, 2020, 235, 109414.	0.9	2
14	Combining bacteriophages with cefiderocol and meropenem/vaborbactam to treat a panâ€“drug resistant <i>Achromobacter</i> species infection in a pediatric cystic fibrosis patient. Pediatric Pulmonology, 2020, 55, 2990-2994.	1.0	61
15	Evolution of Different Structures of the Fungicide Dodine and Changes in the Associated Water at the Air/Water Interface: Vibrational Sum Frequency Generation Study. Journal of Physical Chemistry C, 2020, 124, 18063-18069.	1.5	9
16	Interaction of β -Synuclein with Phospholipids and the Associated Restructuring of Interfacial Lipid Water: An Interface-Selective Vibrational Spectroscopic Study. Angewandte Chemie, 2020, 132, 22919-22925.	1.6	1
17	Interaction of β -Synuclein with Phospholipids and the Associated Restructuring of Interfacial Lipid Water: An Interface-Selective Vibrational Spectroscopic Study. Angewandte Chemie - International Edition, 2020, 59, 22731-22737.	7.2	12
18	Salvage Bacteriophage Therapy for a Chronic MRSA Prosthetic Joint Infection. Antibiotics, 2020, 9, 241.	1.5	59

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19	Morphometry as tool to trace out the genealogy of oxbow lake. <i>Environmental Earth Sciences</i> , 2020, 79, 1.	1.3	3
20	A Review of Topical Phage Therapy for Chronically Infected Wounds and Preparations for a Randomized Adaptive Clinical Trial Evaluating Topical Phage Therapy in Chronically Infected Diabetic Foot Ulcers. <i>Antibiotics</i> , 2020, 9, 377.	1.5	38
21	Target Object Recognition Using Multiresolution SVD and Guided Filter with Convolutional Neural Network. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 2020, 34, 2052008.	0.7	2
22	Hydrophobic Hydration of Fluoroalkyl (C ₆ F ₁₃) is Distinctly Different from That of Its Hydrogenated Counterpart (C ₆ H ₁₃), as Observed by Raman Difference with Simultaneous Curve Fitting Analysis. <i>Journal of Physical Chemistry C</i> , 2019, 123, 27012-27019.	1.5	25
23	Color PET-MRI Medical Image Fusion Combining Matching Regional Spectrum in Shearlet Domain. <i>International Journal of Image and Graphics</i> , 2019, 19, 1950004.	1.2	10
24	Does Fungicide α -Dodecyl-Dimethylammonium Chloride Unfold Protein like Kosmo-Chaotropic Agent?. <i>Journal of Physical Chemistry B</i> , 2019, 123, 8240-8246.	1.2	2
25	Molecular level insight into the counteraction of trehalose on the activity as well as denaturation of lysozyme induced by guanidinium chloride. <i>Chemical Physics</i> , 2019, 527, 110489.	0.9	6
26	A novel automated magnetic resonance image segmentation approach based on elliptical gamma mixture model for breast lumps detection. <i>International Journal of Imaging Systems and Technology</i> , 2019, 29, 599-616.	2.7	1
27	Early clinical experience of bacteriophage therapy in 3 lung transplant recipients. <i>American Journal of Transplantation</i> , 2019, 19, 2631-2639.	2.6	176
28	Successful Treatment of Antibiotic-resistant, Poly-microbial Bone Infection With Bacteriophages and Antibiotics Combination. <i>Clinical Infectious Diseases</i> , 2019, 69, 2015-2018.	2.9	151
29	SDCA: a novel stack deep convolutional autoencoder α an application on retinal image denoising. <i>IET Image Processing</i> , 2019, 13, 2778-2789.	1.4	12
30	High-Quality Draft Genome Sequence of <i>Pseudomonas aeruginosa</i> 268 Isolated from a Patient with a Left Ventricular Assist Device. <i>Microbiology Resource Announcements</i> , 2019, 8, .	0.3	0
31	Practical Applications of Bacteriophage Therapy: Biofilms to Bedside. , 2019, , 459-497.		1
32	The unusual visible fluorescence violating the Kasha's rule suggests the aggregation of guanidinium carbonate in its aqueous medium. <i>Journal of Molecular Liquids</i> , 2018, 253, 211-216.	2.3	2
33	Phage Therapy for a Multidrug-Resistant <i>Acinetobacter baumannii</i> Craniectomy Site Infection. <i>Open Forum Infectious Diseases</i> , 2018, 5, ofy064.	0.4	167
34	Heterodyne-Detected Vibrational Sum Frequency Generation Study of Air α Water α Fluoroalcohol Interface: Fluorocarbon Group-Induced Structural and Orientational Change of Interfacial Water. <i>Journal of Physical Chemistry C</i> , 2018, 122, 26928-26933.	1.5	11
35	Contrasting Effects of Guanidinium Chloride and Urea on the Activity and Unfolding of Lysozyme. <i>ACS Omega</i> , 2018, 3, 14119-14126.	1.6	33
36	Understanding the Role of Hydrophobic Terminal in the Hydrogen Bond Network of the Aqueous Mixture of 2,2,2-Trifluoroethanol: IR, Molecular Dynamics, Quantum Chemical as Well as Atoms in Molecules Studies. <i>Journal of Physical Chemistry B</i> , 2018, 122, 6616-6626.	1.2	10

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37	Spectroscopic and Molecular Dynamics Simulation Study of Lysozyme in the Aqueous Mixture of Ethanol: Insights into the Nonmonotonic Change of the Structure of Lysozyme. <i>Journal of Physical Chemistry B</i> , 2018, 122, 7811-7820.	1.2	9
38	Characterizing Phage Genomes for Therapeutic Applications. <i>Viruses</i> , 2018, 10, 188.	1.5	118
39	Medical image fusion using PCNN and Poisson-hidden Markov model. <i>International Journal of Signal and Imaging Systems Engineering</i> , 2018, 11, 73.	0.6	0
40	Combined Molecular Dynamics, Atoms in Molecules, and IR Studies of the Bulk Monofluoroethanol and Bulk Ethanol To Understand the Role of Organic Fluorine in the Hydrogen Bond Network. <i>Journal of Physical Chemistry A</i> , 2017, 121, 1250-1260.	1.1	20
41	A combined molecular dynamics simulation, atoms in molecule analysis and IR study on the biologically important bulk fluorinated ethanols to understand the role of weak interactions in their cluster formation and hydrogen bond network. <i>Journal of Molecular Liquids</i> , 2017, 240, 708-716.	2.3	16
42	Lambda phage-based vaccine induces antitumor immunity in hepatocellular carcinoma. <i>Heliyon</i> , 2017, 3, e00407.	1.4	27
43	Hydrophobic fluorine mediated switching of the hydrogen bonding site as well as orientation of water molecules in the aqueous mixture of monofluoroethanol: IR, molecular dynamics and quantum chemical studies. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 24667-24677.	1.3	10
44	Fine needle aspiration cytology of primary cutaneous mucinous carcinoma of axilla—report of a rare case. <i>Diagnostic Cytopathology</i> , 2017, 45, 934-938.	0.5	1
45	Development and Use of Personalized Bacteriophage-Based Therapeutic Cocktails To Treat a Patient with a Disseminated Resistant <i>Acinetobacter baumannii</i> Infection. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	1.4	795
46	Fine-needle aspiration cytology of leishmanial lymphadenitis in a HIV reactive patient. <i>Indian Journal of Pathology and Microbiology</i> , 2017, 60, 433.	0.1	0
47	Seasonal dynamics of the genus: <i>Planktoniella</i> Schutt in the estuarine waters of Indian Sundarbans. <i>SpringerPlus</i> , 2016, 5, 611.	1.2	4
48	Hydraulic Parameters and Morphometric Variables Interactions in Bedrock Channel. <i>Quaestiones Geographicae</i> , 2016, 35, 75-88.	0.5	3
49	Solvent organization around the perfluoro group of coumarin 153 governs its photophysical properties: An experimental and simulation study of coumarin dyes in ethanol as well as fluorinated ethanol solvents. <i>Journal of Chemical Physics</i> , 2016, 144, 184504.	1.2	15
50	Personalized Therapeutic Cocktail of Wild Environmental Phages Rescues Mice from <i>Acinetobacter baumannii</i> Wound Infections. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 5806-5816.	1.4	142
51	Role of Hydrogen Bond in the Solvation Behavior of the Binary Mixtures Containing Fluorocarbon Alcohol Molecules and Chloroform: An Experimental and Theoretical Study. <i>ChemistrySelect</i> , 2016, 1, 5607-5617.	0.7	2
52	Automated Segmentation Scheme Based on Probabilistic Method and Active Contour Model for Breast Cancer Detection. <i>Smart Innovation, Systems and Technologies</i> , 2016, , 553-564.	0.5	0
53	Pleural effusion: Role of pleural fluid cytology, adenosine deaminase level, and pleural biopsy in diagnosis. <i>Journal of Cytology</i> , 2016, 33, 159.	0.2	10
54	Clinicopathological pattern of brain tumors: A 3-year study in a tertiary care hospital in India. <i>Clinical Cancer Investigation Journal</i> , 2016, 5, 437.	0.2	8

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55	Cardiofaciocutaneous Syndrome: Case Report of a Rare Disorder. Journal of Clinical and Diagnostic Research JCDR, 2016, 10, SD01-SD02.	0.8	2
56	Co-occurrence of biphenotypic acute leukaemia, glucose 6-phosphate dehydrogenase deficiency and haemoglobin E trait in a single child. BMJ Case Reports, 2016, 2016, bcr2015212714.	0.2	0
57	Medical image fusion technique based on type-2 near fuzzy set. , 2015, , .		4
58	Remote Sensing Image Fusion using PCNN Model Parameter Estimation by Gamma Distribution in Shearlet Domain. Procedia Computer Science, 2015, 70, 304-310.	1.2	7
59	Visible and infrared image fusion technique using advance fuzzy set theory. , 2015, , .		1
60	Medical image registration based on grid matching using Hausdorff Distance and Near set. , 2015, , .		3
61	Microscopic Image Contrast and Brightness Enhancement Using Multi-scale Retinex and Cuckoo Search Algorithm. Procedia Computer Science, 2015, 70, 348-354.	1.2	18
62	Remote sensing image fusion using Hausdorff fractal dimension in shearlet domain. , 2015, , .		1
63	Remote sensing image fusion using Statistical Univariate Finite Mixture Model in Shearlet Domain. , 2015, , .		1
64	Multi-focus image fusion method based on Linked twist map (LTM) in shearlet domain. , 2015, , .		2
65	Medical image fusion by combining SVD and shearlet transform. , 2015, , .		7
66	Remote Sensing Image Fusion using Multithreshold Otsu Method in Shearlet Domain. Procedia Computer Science, 2015, 57, 554-562.	1.2	5
67	Effect of hydration on the organo-noble gas molecule HKrCCH: role of krypton in the stabilization of hydrated HKrCCH complexes. Physical Chemistry Chemical Physics, 2015, 17, 30632-30641.	1.3	11
68	Spine medical image fusion using wiener filter in shearlet domain. , 2015, , .		6
69	A New Multi-focus Image Fusion Method Using Principal Component Analysis in Shearlet Domain. , 2015, , .		1
70	Image registration method using Harris Corner and modified Hausdorff distance with near set. , 2015, , .		2
71	Rhabdoid meningioma lacking malignant features: Report of a rare case with review of literature. Journal of Innovative Optical Health Sciences, 2015, 10, 172-174.	0.5	5
72	Ganglioneuroma arising from the L5 nerve root: A rare case report. Journal of Innovative Optical Health Sciences, 2015, 10, 232-233.	0.5	6

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73	Cases of bowel schistosomiasis presenting as carcinoma colon. Indian Journal of Pathology and Microbiology, 2015, 58, 566.	0.1	0
74	Askin tumor in an adult female. Clinical Cancer Investigation Journal, 2015, 4, 81.	0.2	0
75	Pleural biopsy: A superior procedure than pleural fluid cytology in diagnosing pleural malignancy. Clinical Cancer Investigation Journal, 2015, 4, 530.	0.2	1
76	Neonatal Brain Abscess due to Extended-Spectrum Beta-Lactamase Producing Klebsiella pneumoniae. Journal of Clinical and Diagnostic Research JCDR, 2014, 8, PD01-2.	0.8	1
77	Automatic contrast enhancement of low-light images based on Naka-Rushton visual adaptation in non-sub-sampled shearlet domain. , 2014, , .		6
78	Medical image fusion using regional statistics of shift-invariant shearlet domain. , 2014, , .		2
79	Cayler cardiofacial syndrome with situs inversus totalis. European Journal of Pediatrics, 2014, 173, 1675-1678.	1.3	5
80	Therapeutic and Prophylactic Applications of Bacteriophage Components in Modern Medicine. Cold Spring Harbor Perspectives in Medicine, 2014, 4, a012518-a012518.	2.9	57
81	Genetic Evidence for the Involvement of the S-Layer Protein Gene <i>sap</i> and the Sporulation Genes <i>spo0A</i> , <i>spo0B</i> , and <i>spo0F</i> in Phage AP50c Infection of Bacillus anthracis. Journal of Bacteriology, 2014, 196, 1143-1154.	1.0	28
82	Chediak-Higashi Syndrome in Accelerated Phase: A Rare Case Report with Review of Literature. Indian Journal of Hematology and Blood Transfusion, 2014, 30, 195-198.	0.3	2
83	Whole genome sequencing and comparative genomic analyses of two Vibrio cholerae O139 Bengal-specific Podovirusesto other N4-like phages reveal extensive genetic diversity. Virology Journal, 2013, 10, 165.	1.4	38
84	A novel method for automatic image registration based on wavelet and near fuzzy set. , 2013, , .		1
85	Development of a high throughput assay for indirectly measuring phage growth using the OmniLog TM system. Bacteriophage, 2012, 2, 159-167.	1.9	71
86	Genomic Comparison of Escherichia coli O104:H4 Isolates from 2009 and 2011 Reveals Plasmid, and Prophage Heterogeneity, Including Shiga Toxin Encoding Phage stx2. PLoS ONE, 2012, 7, e48228.	1.1	118
87	A fuzzy multilayer perceptron network based detection and classification of lobar intra-cerebral hemorrhage from Computed Tomography images of brain. , 2011, , .		0
88	Classic Hemorrhagic Disease of the Newborn Presenting with Bilateral Vitreous Hemorrhage. Journal of Emergency Medicine, 2011, 41, 84-85.	0.3	2
89	Transient unilateral oculomotor palsy and severe headache in childhood Kawasaki disease. Rheumatology International, 2011, 31, 97-99.	1.5	12
90	Mega cisterna magna in ectrodactyly, ectodermal dysplasia and cleft lip/palate syndrome. Indian Journal of Pediatrics, 2010, 77, 706-706.	0.3	2

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91	Symmetrical peripheral gangrene in childhood falciparum malaria. <i>International Journal of Dermatology</i> , 2010, 49, 303-305.	0.5	2
92	Open and Closed Lip Schizencephaly in Seckel Syndrome: A Case Report. <i>Journal of Child Neurology</i> , 2010, 25, 494-496.	0.7	6
93	Henoch-Schönlein Purpura Triggered by Falciparum Cerebral Malaria. <i>Clinical Pediatrics</i> , 2010, 49, 699-701.	0.4	3
94	Childhood Plasmodium falciparum malaria complicated by acute pancreatitis. <i>Tropical Doctor</i> , 2010, 40, 184-185.	0.2	6
95	Henoch-Schönlein Purpura Triggered by Acute Hepatitis E Virus Infection. <i>Journal of Emergency Medicine</i> , 2010, 39, 218-219.	0.3	34
96	Perinatal malaria and tuberculosis co-infection: A case report. <i>International Journal of Infectious Diseases</i> , 2010, 14, e254-e256.	1.5	14
97	Childhood Mefloquine-Induced Mania and Psychosis: A Case Report. <i>Journal of Child Neurology</i> , 2009, 24, 1008-1009.	0.7	18
98	Acute Pancreatitis Complicating Hepatitis E Virus Infection in a 7-Year-Old Boy With Glucose 6 Phosphate Dehydrogenase Deficiency. <i>Clinical Pediatrics</i> , 2009, 48, 199-201.	0.4	30
99	Childhood Hepatitis A Virus Infection Complicated by Bell's Palsy. <i>Clinical Pediatrics</i> , 2009, 48, 427-428.	0.4	9
100	Recurrent Limb Weakness in a 17-Year-Old Boy. <i>Clinical Pediatrics</i> , 2009, 48, 555-557.	0.4	10
101	Unilateral Palatal and Abducens Palsy in Childhood Hepatitis A Virus Infection. <i>Journal of Child Neurology</i> , 2009, 24, 628-629.	0.7	10
102	Pseudotumor Cerebri in Childhood Hepatitis E Virus Infection. <i>Headache</i> , 2009, 49, 610-611.	1.8	17
103	Childhood Plasmodium vivax Malaria With Severe Thrombocytopenia and Bleeding Manifestations. <i>Journal of Pediatric Hematology/Oncology</i> , 2009, 31, 758-759.	0.3	15
104	Hepatitis E Virus Infection in a 7-year-old Boy With Glucose 6-phosphate Dehydrogenase Deficiency. <i>Journal of Pediatric Hematology/Oncology</i> , 2009, 31, 223-224.	0.3	9
105	Hymenoptera sting complicated by pseudotumor cerebri in a 9-year-old boy. <i>Clinical Toxicology</i> , 2008, 46, 1100-1101.	0.8	1
106	Bacteriophage Therapy Rescues Mice Bacteremic from a Clinical Isolate of Vancomycin-Resistant Enterococcus faecium. <i>Infection and Immunity</i> , 2002, 70, 204-210.	1.0	425