

Subrata Ghosh

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

776
citations

567281

15
h-index

526287

27
g-index

40
all docs

40
docs citations

40
times ranked

304
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Atomic water channel controlling remarkable properties of a single brain microtubule: Correlating single protein to its supramolecular assembly. <i>Biosensors and Bioelectronics</i> , 2013, 47, 141-148. | 10.1 | 124 |
| 2 | Multi-level memory-switching properties of a single brain microtubule. <i>Applied Physics Letters</i> , 2013, 102, . | 3.3 | 110 |
| 3 | Live visualizations of single isolated tubulin protein self-assembly via tunneling current: effect of electromagnetic pumping during spontaneous growth of microtubule. <i>Scientific Reports</i> , 2014, 4, 7303. | 3.3 | 76 |
| 4 | Fractal, Scale Free Electromagnetic Resonance of a Single Brain Extracted Microtubule Nanowire, a Single Tubulin Protein and a Single Neuron. <i>Fractal and Fractional</i> , 2020, 4, 11. | 3.3 | 41 |
| 5 | Inventing atomic resolution scanning dielectric microscopy to see a single protein complex operation live at resonance in a neuron without touching or adulterating the cell. <i>Journal of Integrative Neuroscience</i> , 2016, 15, 435-462. | 1.7 | 37 |
| 6 | Design and Construction of a Brain-Like Computer: A New Class of Frequency-Fractal Computing Using Wireless Communication in a Supramolecular Organic, Inorganic System. <i>Information (Switzerland)</i> , 2014, 5, 28-100. | 2.9 | 36 |
| 7 | A Self-Operating Time Crystal Model of the Human Brain: Can We Replace Entire Brain Hardware with a 3D Fractal Architecture of Clocks Alone?. <i>Information (Switzerland)</i> , 2020, 11, 238. | 2.9 | 36 |
| 8 | Cytoskeletal Filaments Deep Inside a Neuron Are not Silent: They Regulate the Precise Timing of Nerve Spikes Using a Pair of Vortices. <i>Symmetry</i> , 2021, 13, 821. | 2.2 | 32 |
| 9 | Synthesis of heliannuols A and K, allelochemicals from cultivar sunflowers and the marine metabolite helianane, unusual sesquiterpenes containing a benzoxocane ring system. <i>Tetrahedron</i> , 2007, 63, 644-651. | 1.9 | 30 |
| 10 | Inventing a co-axial atomic resolution patch clamp to study a single resonating protein complex and ultra-low power communication deep inside a living neuron cell. <i>Journal of Integrative Neuroscience</i> , 2016, 15, 403-433. | 1.7 | 30 |
| 11 | An organic jelly made fractal logic gate with an infinite truth table. <i>Scientific Reports</i> , 2015, 5, 11265. | 3.3 | 20 |
| 12 | A Brain-like Computer Made of Time Crystal: Could a Metric of Prime Alone Replace a User and Alleviate Programming Forever?. <i>Studies in Computational Intelligence</i> , 2018, , 1-43. | 0.9 | 20 |
| 13 | Expeditious synthesis of helianane and C-10 halogenated heliananes employing ring-closing metathesis. <i>Tetrahedron Letters</i> , 2009, 50, 4683-4684. | 1.4 | 18 |
| 14 | Electrophysiology using coaxial atom probe array: live imaging reveals hidden circuits of a hippocampal neural network. <i>Journal of Neurophysiology</i> , 2021, 125, 2107-2116. | 1.8 | 18 |
| 15 | Nano Molecular Platform: A Protocol to Write Energy Transmission Program Inside a Molecule for Bio-Inspired Supramolecular Engineering. <i>Advanced Functional Materials</i> , 2014, 24, 1364-1371. | 14.9 | 15 |
| 16 | In-vivo & in-vitro toxicity test of molecularly engineered PCMS: A potential drug for wireless remote controlled treatment. <i>Toxicology Reports</i> , 2018, 5, 1044-1052. | 3.3 | 15 |
| 17 | Resonant Oscillation Language of a Futuristic Nano-Machine-Module: Eliminating Cancer Cells & Alzheimer A β ; Plaques. <i>Current Topics in Medicinal Chemistry</i> , 2015, 15, 534-541. | 2.1 | 15 |
| 18 | All Basics that Are Wrong with the Current Concept of Time Crystal: Learning from the Polyatomic Time Crystals of Protein, microtubule, and Neuron. <i>Lecture Notes in Networks and Systems</i> , 2022, , 243-254. | 0.7 | 13 |

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|----|--|------|-----------|
| 19 | Evidence of massive global synchronization and the consciousness. <i>Physics of Life Reviews</i> , 2014, 11, 83-84. | 2.8 | 12 |
| 20 | A Space-Time-Topology-Prime, stTS Metric for a Self-operating Mathematical Universe Uses Dodecanon Geometric Algebra of 2-20 D Complex Vectors. <i>Lecture Notes in Networks and Systems</i> , 2021, , 1-31. | 0.7 | 12 |
| 21 | A simultaneous one pot synthesis of two fractal structures via swapping two fractal reaction kinetic states. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 14772-14775. | 2.8 | 10 |
| 22 | Fractal Information Theory (FIT)-Derived Geometric Musical Language (GML) for Brain-Inspired Hypercomputing. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 343-372. | 0.6 | 10 |
| 23 | On Cellular Automata rules of molecular arrays. <i>Natural Computing</i> , 2012, 11, 311-321. | 3.0 | 6 |
| 24 | The century-old picture of a nerve spike is wrong: filaments fire, before membrane. <i>Communicative and Integrative Biology</i> , 2022, 15, 115-120. | 1.4 | 6 |
| 25 | Computational Myths and Mysteries That Have Grown Around Microtubule in the Last Half a Century and Their Possible Verification. <i>Journal of Computational and Theoretical Nanoscience</i> , 2011, 8, 509-515. | 0.4 | 5 |
| 26 | Molecular Implementations of Cellular Automata. <i>Lecture Notes in Computer Science</i> , 2010, , 650-659. | 1.3 | 5 |
| 27 | Building a Non-ionic, Non-electronic, Non-algorithmic Artificial Brain: Cortex and Connectome Interaction in a Humanoid Bot Subject (HBS). <i>Advances in Intelligent Systems and Computing</i> , 2021, , 245-278. | 0.6 | 5 |
| 28 | Unprecedented C-Methylation at the 2-Position of 2-Carboxy-4-Chromanones – A Case Study with the Corey’s Chaykovsky Reagent. <i>Synlett</i> , 2014, 25, 2649-2653. | 1.8 | 4 |
| 29 | Radio Waveguide’s Double Ratchet Rotors Work in Unison on a Surface to Convert Heat into Power. <i>Nano Letters</i> , 2020, 20, 6891-6898. | 9.1 | 4 |
| 30 | Space and Time Crystal Engineering in Developing Futuristic Chemical Technology. <i>ChemEngineering</i> , 2021, 5, 67. | 2.4 | 3 |
| 31 | Speedy one-pot electrochemical synthesis of giant octahedrons from in situ generated pyrrolidinyl PAMAM dendrimer. <i>Soft Matter</i> , 2020, 16, 9140-9146. | 2.7 | 2 |
| 32 | Instantaneous Communication Between Cerebellum, Hypothalamus, and Hippocampus (C-H-H) During Decision-Making Process in Human Brain-III. <i>Lecture Notes in Networks and Systems</i> , 2022, , 93-110. | 0.7 | 2 |
| 33 | Dendrimers: Nano Molecular-Platform: A Protocol to Write Energy Transmission Program Inside a Molecule for Bio-Inspired Supramolecular Engineering (<i>Adv. Funct. Mater.</i> 10/2014). <i>Advanced Functional Materials</i> , 2014, 24, 1338-1338. | 14.9 | 1 |
| 34 | An Advanced Architecture of a Massive Parallel Processing Nano Brain Operating 100 Billion Molecular Neurons Simultaneously. , 0, , 43-73. | | 1 |
| 35 | Making of Streptavidin Conjugated Crypto-Nanobot: An Advanced Resonance Drug for Cancer’s Cell Membrane Specificity. <i>Lecture Notes in Networks and Systems</i> , 2021, , 281-287. | 0.7 | 1 |
| 36 | Time Crystal Engineering in Catalytic Reaction Cycles. <i>Studies in Rhythm Engineering</i> , 2021, , 103-134. | 0.2 | 1 |

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|----|---|----|-----------|
| 37 | An Advanced Architecture of a Massive Parallel Processing Nano Brain Operating 100 Billion Molecular Neurons Simultaneously. , 0 , 1588-1620. | | 0 |