Duangkamon Baowan

List of Publications by Year
in descending order

70	594	687220 13	713332 21
papers	citations	h-index	g-index

70	70	70	489
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Force distribution for double-walled carbon nanotubes and gigahertz oscillators. Zeitschrift Fur Angewandte Mathematik Und Physik, 2007, 58, 857-875.	0.7	61
2	Two least squares analyses of bond lengths and bond angles for the joining of carbon nanotubes to graphenes. Carbon, 2007, 45, 2972-2980.	5.4	37
3	Instability of C60 fullerene interacting with lipid bilayer. Journal of Molecular Modeling, 2012, 18, 549-557.	0.8	32
4	Encapsulation of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi mathvariant="normal">C</mml:mi><mml:mn>60</mml:mn></mml:msub></mml:math>fullerenes into single-walled carbon nanotubes: Fundamental mechanical principles and conventional applied mathematical modeling. Physical Review B, 2007, 76, .	1.1	30
5	Encapsulation of TiO₂nanoparticles into single-walled carbon nanotubes. New Journal of Physics, 2009, 11, 093011.	1.2	29
6	Nested boron nitride and carbon-boron nitride nanocones. Micro and Nano Letters, 2007, 2, 46.	0.6	28
7	Suction energy and offset configuration for double-walled carbon nanotubes. Communications in Nonlinear Science and Numerical Simulation, 2008, 13, 1431-1447.	1.7	27
8	Energetics of liposomes encapsulating silica nanoparticles. Journal of Molecular Modeling, 2013, 19, 2459-2472.	0.8	20
9	Relating elasticity and graphene folding conformation. RSC Advances, 2015, 5, 57515-57520.	1.7	20
10	Modelling selective separation of trypsin and lysozyme using mesoporous silica. Microporous and Mesoporous Materials, 2013, 176, 209-214.	2.2	19
11	Equilibrium locations for nested carbon nanocones. Journal of Mathematical Chemistry, 2008, 43, 1489-1504.	0.7	16
12	Junctions between a boron nitride nanotube and a boron nitride sheet. Nanotechnology, 2008, 19, 075704.	1.3	16
13	A Review of Geometry, Construction and Modelling for Carbon Nanotori. Applied Sciences (Switzerland), 2019, 9, 2301.	1.3	15
14	Gigahertz Oscillators Constructed from Carbon Nanocones Inside Carbon Nanotubes. Journal of Computational and Theoretical Nanoscience, 2008, 5, 302-310.	0.4	13
15	Modelling bovine serum albumin inside carbon nanotubes. RSC Advances, 2013, 3, 23482.	1.7	12
16	Zigzag and spiral configurations for fullerenes in carbon nanotubes. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 7543-7556.	0.7	11
17	Toroidal molecules formed from three distinct carbon nanotubes. Journal of Mathematical Chemistry, 2008, 44, 515-527.	0.7	11
18	Continuum Modelling for Interactions Between Fullerenes and Other Carbon Nanostructures. Journal of Computational and Theoretical Nanoscience, 2009, 6, 972-984.	0.4	9

#	Article	IF	Citations
19	Discrete and Continuous Approximations for Nanobuds. Fullerenes Nanotubes and Carbon Nanostructures, 2010, 18, 160-177.	1.0	9
20	Carbon nanotori and nanotubes encapsulating carbon atomic-chains. Journal of Mathematical Chemistry, 2014, 52, 1817-1830.	0.7	9
21	Modelling water molecules inside cyclic peptide nanotubes. Applied Nanoscience (Switzerland), 2016, 6, 345-357.	1.6	9
22	Modelling the joining of nanocones and nanotubes. Journal of Mathematical Chemistry, 2011, 49, 475-488.	0.7	8
23	DETERMINATION OF JOIN REGIONS BETWEEN CARBON NANOSTRUCTURES USING VARIATIONAL CALCULUS. ANZIAM Journal, 2013, 54, 221-247.	0.3	8
24	Mathematical modeling of interaction energies between nanoscale objects: A review of nanotechnology applications. Advances in Mechanical Engineering, 2016, 8, 168781401667702.	0.8	8
25	Continuum modelling of gigahertz nano-oscillators. International Journal of Nanotechnology, 2008, 5, 195.	0.1	7
26	Modelling adsorption of a water molecule into various pore structures of silica gel. Journal of Mathematical Chemistry, 2011, 49, 2291-2307.	0.7	7
27	Modelling encapsulation of gold and silver nanoparticles inside lipid nanotubes. Physica A: Statistical Mechanics and Its Applications, 2014, 396, 149-154.	1.2	7
28	Modelling carbon nanocones for selective filter. Journal of Mathematical Chemistry, 2020, 58, 1650-1662.	0.7	7
29	Wave-like deformations for oscillating carbon nanotubes. International Journal of Solids and Structures, 2007, 44, 8297-8312.	1.3	6
30	Willmore energy for joining of carbon nanostructures. Philosophical Magazine, 2018, 98, 1511-1524.	0.7	6
31	Interaction energy for a fullerene encapsulated in a carbon nanotorus. Zeitschrift Fur Angewandte Mathematik Und Physik, 2018, 69, 1.	0.7	6
32	Modeling the join curve between two co-axial carbon nanotubes. Zeitschrift Fur Angewandte Mathematik Und Physik, 2012, 63, 331-338.	0.7	5
33	Modelling of carbon dioxide: methane separation using titanium dioxide nanotubes. Journal of Mathematical Chemistry, 2012, 50, 300-309.	0.7	5
34	Instability of carbon nanoparticles interacting with lipid bilayers. RSC Advances, 2015, 5, 5508-5515.	1.7	5
35	Quantitative study of BSA coating silica nanoparticle. Journal of Mathematical Chemistry, 2015, 53, 29-40.	0.7	5
36	Continuum modelling for adhesion between paint surfaces. International Journal of Adhesion and Adhesives, 2016, 70, 234-238.	1.4	5

#	Article	IF	Citations
37	Mathematical modelling for equilibrium configurations of concentric gold nanoparticles. Journal of Mathematical Chemistry, 2011, 49, 1042-1053.	0.7	4
38	Encapsulation behaviours of nanoparticles entering two-section carbon nanotubes. Journal of Mathematical Chemistry, 2014, 52, 489-503.	0.7	4
39	Three model shapes of Doxorubicin for liposome encapsulation. Journal of Molecular Modeling, 2014, 20, 2504.	0.8	4
40	Mathematical methods on atomic force microscope cantilever systems. RSC Advances, 2016, 6, 46658-46667.	1.7	4
41	Mathematical model for drug molecules encapsulated in lipid nanotube. Physica A: Statistical Mechanics and Its Applications, 2016, 461, 46-60.	1.2	4
42	Equilibrium location for spherical DNA and toroidal cyclodextrin. Applied Nanoscience (Switzerland), 2018, 8, 537-544.	1.6	4
43	Aggregated GP-based Optimization for Contaminant Source Localization. Operations Research Perspectives, 2020, 7, 100151.	1.2	4
44	Force Distribution for Double-Walled Carbon Nanotubes. , 2006, , .		3
45	A Review of Mathematical and Mechanical Modelling in Nanotechnology. Mathematics and Mechanics of Solids, 2010, 15, 708-717.	1.5	3
46	Dislodgement of carbon nanotube bundles under pressure driven flow. Nanotechnology, 2010, 21, 155305.	1.3	3
47	Three Possible Encapsulation Mechanics of TiO2Nanoparticles into Single-Walled Carbon Nanotubes. Journal of Nanomaterials, 2011, 2011, 1-8.	1.5	3
48	Nested Carbon Nanostructures. , 2017, , 87-117.		3
49	The effect of non-covalent functionalization on the interaction energy of carbon nanotubes. Journal of Physics Communications, 2019, 3, 035018.	0.5	3
50	Mechanics of atoms interacting with a carbon nanotorus: optimal configuration and oscillation behaviour. Philosophical Magazine, 2019, 99, 1386-1399.	0.7	3
51	Joining curves between nano-torus and nanotube: mathematical approaches based on energy minimization. Zeitschrift Fur Angewandte Mathematik Und Physik, 2021, 72, 1.	0.7	3
52	Joining a carbon nanotube and a graphene sheet. , 2008, , .		2
53	Modelling Gas Storage Capacity for Porous Aromatic Frameworks. Journal of Computational and Theoretical Nanoscience, 2014, 11, 234-241.	0.4	2
54	Optimal configurations for interacting carbon nanotori. Applied Nanoscience (Switzerland), 2019, 9, 225-232.	1.6	2

#	Article	IF	Citations
55	Modeling of Titania Nanoparticle Accumulation at the Open End of Single-Walled Carbon Nanotubes Prior to TiO₂ Encapsulation. Journal of Computational and Theoretical Nanoscience, 2010, 7, 1926-1930.	0.4	1
56	Equilibrium Configurations for Carbon Nano-Stacked Cups. Journal of Computational and Theoretical Nanoscience, 2011, 8, 616-623.	0.4	1
57	Modelling interactions between a PBB and fullerenes. Journal of Mathematical Chemistry, 2013, 51, 1001-1022.	0.7	1
58	Continuous approximation for interaction energy of adamantane encapsulated inside carbon nanotubes. Chemical Physics Letters, 2018, 693, 34-39.	1.2	1
59	Energy behaviour of Doxorubicin interacting with peptide nanotubes. Journal of Mathematical Chemistry, 2020, 58, 382-392.	0.7	1
60	Two Minimisation Approximations for Joining Carbon Nanostructures. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2009, , 109-121.	0.1	1
61	Interacting Ru(bpy)

 3

 2
 +

 Dye Molecules and TiO2 Semiconductor in Dye-Sensitized Solar Cells. Mathematics, 2020, 8, 841. | 1.1 | 1 |
62	Modelling Packing Arrangements of Doxorubicin in Liposomal Molecules. Journal of Computational and Theoretical Nanoscience, 2016, 13, 8241-8248.	0.4	1
63	MATHEMATICAL MODELLING OF NANOSTRUCTURES. Bulletin of the Australian Mathematical Society, 2008, 78, 351-352.	0.3	0
64	Zigzag and spiral configurations for fullerenes in carbon nanotubes. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 299801.	0.7	0
65	Theoretical prediction for the encapsulation of TiO<inf>2</inf> nanoparticles into carbon nanotubes. , 2010, , .		0
66	PENETRATION OF SPHERICAL GOLD NANOPARTICLE INTO A LIPID BILAYER. ANZIAM Journal, 2015, 57, 18-28.	0.3	0
67	Fast Flow Through Nanotubes and Tube Blow-Out. , 2013, , 71-86.		0
68	Energy Contribution for the Encapsulation of Drug Molecule Inside Lipid Nanotube. Journal of Bionanoscience, 2018, 12, 562-568.	0.4	0
69	Design of schwarzite templates based on energy minimization of surfaces. Carbon Trends, 2021, 5, 100139.	1.4	0
70	Critical sizes for PET cylindrical and hourglass shaped pores for selective ion channels. Physica B: Condensed Matter, 2022, 633, 413476.	1.3	0