# 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 | Critical sizes for PET cylindrical and hourglass shaped pores for selective ion channels. Physica B: Condensed Matter, 2022, 633, 413476. | 1.3 | 0 |
| 2 | 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 |
| 3 | Design of schwarzite templates based on energy minimization of surfaces. Carbon Trends, 2021, 5, 100139. | 1.4 | 0 |
| 4 | Energy behaviour of Doxorubicin interacting with peptide nanotubes. Journal of Mathematical Chemistry, 2020, 58, 382-392. | 0.7 | 1 |
| 5 | Modelling carbon nanocones for selective filter. Journal of Mathematical Chemistry, 2020, 58, 1650-1662. | 0.7 | 7 |
| 6 | Aggregated GP-based Optimization for Contaminant Source Localization. Operations Research Perspectives, 2020, 7, 100151. | 1.2 | 4 |
| 7 | Interacting Ru(bpy)       3  2 +      Dye Molecules and TiO2 Semiconductor in Dye-Sensitized Solar Cells. Mathematics, 2020, 8, 841. | 1.1 | 1 |
| 8 | A Review of Geometry, Construction and Modelling for Carbon Nanotori. Applied Sciences (Switzerland), 2019, 9, 2301. | 1.3 | 15 |
| 9 | The effect of non-covalent functionalization on the interaction energy of carbon nanotubes. Journal of Physics Communications, 2019, 3, 035018. | 0.5 | 3 |
| 10 | Mechanics of atoms interacting with a carbon nanotorus: optimal configuration and oscillation behaviour. Philosophical Magazine, 2019, 99, 1386-1399. | 0.7 | 3 |
| 11 | Optimal configurations for interacting carbon nanotori. Applied Nanoscience (Switzerland), 2019, 9, 225-232. | 1.6 | 2 |
| 12 | Willmore energy for joining of carbon nanostructures. Philosophical Magazine, 2018, 98, 1511-1524. | 0.7 | 6 |
| 13 | Continuous approximation for interaction energy of adamantane encapsulated inside carbon nanotubes. Chemical Physics Letters, 2018, 693, 34-39. | 1.2 | 1 |
| 14 | Equilibrium location for spherical DNA and toroidal cyclodextrin. Applied Nanoscience (Switzerland), 2018, 8, 537-544. | 1.6 | 4 |
| 15 | Interaction energy for a fullerene encapsulated in a carbon nanotorus. Zeitschrift Fur Angewandte Mathematik Und Physik, 2018, 69, 1. | 0.7 | 6 |
| 16 | Energy Contribution for the Encapsulation of Drug Molecule Inside Lipid Nanotube. Journal of Bionanoscience, 2018, 12, 562-568. | 0.4 | 0 |
| 17 | Nested Carbon Nanostructures. , 2017, , 87-117. | | 3 |
| 18 | Mathematical modeling of interaction energies between nanoscale objects: A review of nanotechnology applications. Advances in Mechanical Engineering, 2016, 8, 168781401667702. | 0.8 | 8 |

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|---|---|---|---|
| 19 | Mathematical methods on atomic force microscope cantilever systems. RSC Advances, 2016, 6, 46658-46667. | 1.7 | 4 |
| 20 | Continuum modelling for adhesion between paint surfaces. International Journal of Adhesion and Adhesives, 2016, 70, 234-238. | 1.4 | 5 |
| 21 | Mathematical model for drug molecules encapsulated in lipid nanotube. Physica A: Statistical Mechanics and Its Applications, 2016, 461, 46-60. | 1.2 | 4 |
| 22 | Modelling water molecules inside cyclic peptide nanotubes. Applied Nanoscience (Switzerland), 2016, 6, 345-357. | 1.6 | 9 |
| 23 | Modelling Packing Arrangements of Doxorubicin in Liposomal Molecules. Journal of Computational and Theoretical Nanoscience, 2016, 13, 8241-8248. | 0.4 | 1 |
| 24 | PENETRATION OF SPHERICAL GOLD NANOPARTICLE INTO A LIPID BILAYER. ANZIAM Journal, 2015, 57, 18-28. | 0.3 | 0 |
| 25 | Instability of carbon nanoparticles interacting with lipid bilayers. RSC Advances, 2015, 5, 5508-5515. | 1.7 | 5 |
| 26 | Quantitative study of BSA coating silica nanoparticle. Journal of Mathematical Chemistry, 2015, 53, 29-40. | 0.7 | 5 |
| 27 | Relating elasticity and graphene folding conformation. RSC Advances, 2015, 5, 57515-57520. | 1.7 | 20 |
| 28 | Encapsulation behaviours of nanoparticles entering two-section carbon nanotubes. Journal of Mathematical Chemistry, 2014, 52, 489-503. | 0.7 | 4 |
| 29 | Modelling encapsulation of gold and silver nanoparticles inside lipid nanotubes. Physica A: Statistical Mechanics and Its Applications, 2014, 396, 149-154. | 1.2 | 7 |
| 30 | Three model shapes of Doxorubicin for liposome encapsulation. Journal of Molecular Modeling, 2014, 20, 2504. | 0.8 | 4 |
| 31 | Carbon nanotori and nanotubes encapsulating carbon atomic-chains. Journal of Mathematical Chemistry, 2014, 52, 1817-1830. | 0.7 | 9 |
| 32 | Modelling Gas Storage Capacity for Porous Aromatic Frameworks. Journal of Computational and Theoretical Nanoscience, 2014, 11, 234-241. | 0.4 | 2 |
| 33 | Modelling interactions between a PBB and fullerenes. Journal of Mathematical Chemistry, 2013, 51, 1001-1022. | 0.7 | 1 |
| 34 | Energetics of liposomes encapsulating silica nanoparticles. Journal of Molecular Modeling, 2013, 19, 2459-2472. | 0.8 | 20 |
| 35 | Modelling selective separation of trypsin and lysozyme using mesoporous silica. Microporous and Mesoporous Materials, 2013, 176, 209-214. | 2.2 | 19 |
| 36 | Modelling bovine serum albumin inside carbon nanotubes. RSC Advances, 2013, 3, 23482. | 1.7 | 12 |

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|---|---|---|---|
| 37 | DETERMINATION OF JOIN REGIONS BETWEEN CARBON NANOSTRUCTURES USING VARIATIONAL CALCULUS. ANZIAM Journal, 2013, 54, 221-247. | 0.3 | 8 |
| 38 | Fast Flow Through Nanotubes and Tube Blow-Out. , 2013, , 71-86. | | 0 |
| 39 | Modeling the join curve between two co-axial carbon nanotubes. Zeitschrift Fur Angewandte Mathematik Und Physik, 2012, 63, 331-338. | 0.7 | 5 |
| 40 | Modelling of carbon dioxide: methane separation using titanium dioxide nanotubes. Journal of Mathematical Chemistry, 2012, 50, 300-309. | 0.7 | 5 |
| 41 | Instability of C60 fullerene interacting with lipid bilayer. Journal of Molecular Modeling, 2012, 18, 549-557. | 0.8 | 32 |
| 42 | Equilibrium Configurations for Carbon Nano-Stacked Cups. Journal of Computational and Theoretical Nanoscience, 2011, 8, 616-623. | 0.4 | 1 |
| 43 | Modelling the joining of nanocones and nanotubes. Journal of Mathematical Chemistry, 2011, 49, 475-488. | 0.7 | 8 |
| 44 | Mathematical modelling for equilibrium configurations of concentric gold nanoparticles. Journal of Mathematical Chemistry, 2011, 49, 1042-1053. | 0.7 | 4 |
| 45 | Modelling adsorption of a water molecule into various pore structures of silica gel. Journal of Mathematical Chemistry, 2011, 49, 2291-2307. | 0.7 | 7 |
| 46 | Three Possible Encapsulation Mechanics of TiO2Nanoparticles into Single-Walled Carbon Nanotubes. Journal of Nanomaterials, 2011, 2011, 1-8. | 1.5 | 3 |
| 47 | Modeling of Titania Nanoparticle Accumulation at the Open End of Single-Walled Carbon Nanotubes Prior to TiO<SUB>2</SUB> Encapsulation. Journal of Computational and Theoretical Nanoscience, 2010, 7, 1926-1930. | 0.4 | 1 |
| 48 | Discrete and Continuous Approximations for Nanobuds. Fullerenes Nanotubes and Carbon Nanostructures, 2010, 18, 160-177. | 1.0 | 9 |
| 49 | A Review of Mathematical and Mechanical Modelling in Nanotechnology. Mathematics and Mechanics of Solids, 2010, 15, 708-717. | 1.5 | 3 |
| 50 | Dislodgement of carbon nanotube bundles under pressure driven flow. Nanotechnology, 2010, 21, 155305. | 1.3 | 3 |
| 51 | Theoretical prediction for the encapsulation of TiO<inf>2</inf> nanoparticles into carbon nanotubes. , 2010, , . | | 0 |
| 52 | Continuum Modelling for Interactions Between Fullerenes and Other Carbon Nanostructures. Journal of Computational and Theoretical Nanoscience, 2009, 6, 972-984. | 0.4 | 9 |
| 53 | Encapsulation of TiO<sub>2</sub>nanoparticles into single-walled carbon nanotubes. New Journal of Physics, 2009, 11, 093011. | 1.2 | 29 |
| 54 | Two Minimisation Approximations for Joining Carbon Nanostructures. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2009, , 109-121. | 0.1 | 1 |

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| 55 | Equilibrium locations for nested carbon nanocones. Journal of Mathematical Chemistry, 2008, 43, 1489-1504. | 0.7 | 16 |
| 56 | Toroidal molecules formed from three distinct carbon nanotubes. Journal of Mathematical Chemistry, 2008, 44, 515-527. | 0.7 | 11 |
| 57 | Suction energy and offset configuration for double-walled carbon nanotubes. Communications in Nonlinear Science and Numerical Simulation, 2008, 13, 1431-1447. | 1.7 | 27 |
| 58 | Joining a carbon nanotube and a graphene sheet. , 2008, , . | | 2 |
| 59 | Junctions between a boron nitride nanotube and a boron nitride sheet. Nanotechnology, 2008, 19, 075704. | 1.3 | 16 |
| 60 | MATHEMATICAL MODELLING OF NANOSTRUCTURES. Bulletin of the Australian Mathematical Society, 2008, 78, 351-352. | 0.3 | 0 |
| 61 | Zigzag and spiral configurations for fullerenes in carbon nanotubes. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 299801. | 0.7 | 0 |
| 62 | Continuum modelling of gigahertz nano-oscillators. International Journal of Nanotechnology, 2008, 5, 195. | 0.1 | 7 |
| 63 | Gigahertz Oscillators Constructed from Carbon Nanocones Inside Carbon Nanotubes. Journal of Computational and Theoretical Nanoscience, 2008, 5, 302-310. | 0.4 | 13 |
| 64 | Zigzag and spiral configurations for fullerenes in carbon nanotubes. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 7543-7556. | 0.7 | 11 |
| 65 | 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 |
| 66 | 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 |
| 67 | Wave-like deformations for oscillating carbon nanotubes. International Journal of Solids and Structures, 2007, 44, 8297-8312. | 1.3 | 6 |
| 68 | Nested boron nitride and carbon-boron nitride nanocones. Micro and Nano Letters, 2007, 2, 46. | 0.6 | 28 |
| 69 | Force distribution for double-walled carbon nanotubes and gigahertz oscillators. Zeitschrift Fur Angewandte Mathematik Und Physik, 2007, 58, 857-875. | 0.7 | 61 |
| 70 | Force Distribution for Double-Walled Carbon Nanotubes. , 2006, , . | | 3 |