Teik-Cheng Lim

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5956318/publications.pdf

Version: 2024-02-01

217 papers	5,035 citations	159525 30 h-index	182361 51 g-index
239 all docs	239 docs citations	239 times ranked	3802 citing authors

#	Article	IF	Citations
1	Metamaterial with sign-toggling thermal expansivity inspired by Islamic motifs in Spain. Journal of Science: Advanced Materials and Devices, 2022, 7, 100401.	1.5	3
2	An exact deflection solution to a type of cantilever with partially built-in end using strong boundary conditions. International Journal of Mechanical Engineering Education, 2021, 49, 72-79.	0.6	3
3	Sensing Materials: Composites and Hybrid Materials. , 2021, , .		0
4	A perfect 2D auxetic sliding mechanism based on an Islamic geometric pattern. Engineering Research Express, 2021, 3, 015025.	0.8	15
5	An Auxetic System Based on Interconnected Y-Elements Inspired by Islamic Geometric Patterns. Symmetry, 2021, 13, 865.	1.1	13
6	Metamaterial honeycomb with sign-toggling expansion coefficients that manifests an Islamic mosaic pattern at the Alhambra Palace. Advanced Composites and Hybrid Materials, 2021, 4, 966-978.	9.9	19
7	An Auxetic Metamaterial with Tunable Positive to Negative Hygrothermal Expansion by means of Counterâ€Rotating Crosses. Physica Status Solidi (B): Basic Research, 2021, 258, 2100137.	0.7	18
8	Adjustable positive and negative hygrothermal expansion metamaterial inspired by the Maltese cross. Royal Society Open Science, 2021, 8, 210593.	1.1	17
9	Mechanics of Metamaterials with Negative Parameters. Engineering Materials, 2020, , .	0.3	70
10	Negative Hygrothermal Expansion of Reinforced Double Arrowhead Microstructure. Physica Status Solidi (B): Basic Research, 2020, 257, 1800055.	0.7	17
11	Maximum Stresses in Rectangular Auxetic Membranes. Physica Status Solidi (B): Basic Research, 2020, 257, 2000300.	0.7	5
12	Metacomposite structure with sign-changing coefficients of hygrothermal expansions inspired by Islamic motif. Composite Structures, 2020, 251, 112660.	3.1	22
13	Extraction of Mindlin platesâ€™ shear correction factors from Reddy plate theory. Proceedings of the Institution of Civil Engineers: Engineering and Computational Mechanics, 2020, 173, 37-44.	0.4	1
14	Metacomposite with auxetic and in situ sign reversible thermal expansivity upon temperature fluctuation. Composites Communications, 2020, 19, 30-36.	3.3	29
15	Composite metamaterial square grids with sign-flipping expansion coefficients leading to a type of Islamic design. SN Applied Sciences, 2020, 2, 1.	1.5	22
16	Auxetic Microstructures. Engineering Materials, 2020, , 9-51.	0.3	3
17	Negative Compressibility. Engineering Materials, 2020, , 427-463.	0.3	0
18	Auxetic Composites with Enhanced Moduli. Engineering Materials, 2020, , 273-322.	0.3	0

#	Article	IF	Citations
19	Elasticity of Auxetic Beams. Engineering Materials, 2020, , 219-236.	0.3	0
20	Negative Thermal Expansion. Engineering Materials, 2020, , 351-426.	0.3	0
21	Thin Auxetic Plates. Engineering Materials, 2020, , 75-107.	0.3	0
22	Analogies Across Auxetic Models. Engineering Materials, 2020, , 53-74.	0.3	0
23	Metamaterials and Islamic Geometric Patterns. Engineering Materials, 2020, , 655-693.	0.3	0
24	Sign-Switching of Metamaterial Properties. Engineering Materials, 2020, , 523-527.	0.3	0
25	Negative Moisture Expansion, Negative Hygrothermal Expansion, and Negative Environmental Expansion. Engineering Materials, 2020, , 465-507.	0.3	0
26	Auxetic Composites with Mixed Auxeticity. Engineering Materials, 2020, , 237-272.	0.3	1
27	Auxetic Membranes. Engineering Materials, 2020, , 323-350.	0.3	0
28	Sign-Switching of Poissonâ€™s Ratio with Temperature Change Reversals. Engineering Materials, 2020, , 591-630.	0.3	0
29	Experimental and numerical investigation of novel Savonius wind turbine. Wind Engineering, 2019, 43, 247-262.	1.1	13
30	A class of shape-shifting composite metamaterial honeycomb structures with thermally-adaptive Poissonâ€™s ratio signs. Composite Structures, 2019, 226, 111256.	3.1	39
31	A 2D auxetikos system based on interconnected shurikens. SN Applied Sciences, 2019, 1, 1.	1.5	15
32	Effect of Solutionizing Time on Improving the Microstructure and Mechanical Properties of Aged AZ80 Mg Alloy. Journal of Materials Engineering and Performance, 2019, 28, 6836-6852.	1.2	7
33	Composite metamaterial with sign-switchable coefficients of hygroscopic, thermal and pressure expansions. Advanced Composites and Hybrid Materials, 2019, 2, 657-669.	9.9	29
34	Review on the Evolution of Darrieus Vertical Axis Wind Turbine: Large Wind Turbines. Clean Technologies, 2019, 1, 205-223.	1.9	15
35	2D metamaterial with in-plane positive and negative thermal expansion and thermal shearing based on interconnected alternating bimaterials. Materials Research Express, 2019, 6, 115804.	0.8	35
36	Longitudinal wave speed in rectangular slabs with mixed restraints in lateral directions. Proceedings of the Institution of Civil Engineers: Engineering and Computational Mechanics, 2019, 172, 153-161.	0.4	1

#	Article	IF	Citations
37	Strategies for Enhancing the Low Wind Speed Performance of H-Darrieus Wind Turbineâ€"Part 1. Clean Technologies, 2019, 1, 185-204.	1.9	15
38	Computational Optimization of Adaptive Hybrid Darrieus Turbine: Part 1. Fluids, 2019, 4, 90.	0.8	10
39	Longitudinal wave speed in cylindrical auxetic rods with elastic constraint in radial direction. European Journal of Mechanics, A/Solids, 2019, 75, 443-449.	2.1	6
40	A composite metamaterial with sign switchable elastic and hygrothermal properties induced by stress direction and environmental change reversals. Composite Structures, 2019, 220, 185-193.	3.1	28
41	An Anisotropic Auxetic 2D Metamaterial Based on Sliding Microstructural Mechanism. Materials, 2019, 12, 429.	1.3	12
42	Metamaterials with Poissonâ€™s ratio sign toggling by means of microstructural duality. SN Applied Sciences, 2019, 1, 1.	1.5	37
43	Composite microstructures with Poissonâ€™s ratio sign switching upon stress reversal. Composite Structures, 2019, 209, 34-44.	3.1	42
44	Negative Environmental Expansion for Interconnected Array of Rings and Sliding Rods. Physica Status Solidi (B): Basic Research, 2019, 256, 1800032.	0.7	25
45	Longitudinal wave speed in auxetic plates with elastic constraint in width direction. Archive of Applied Mechanics, 2019, 89, 659-668.	1.2	10
46	A Review on the Evolution of Darrieus Vertical Axis Wind Turbine: Small Wind Turbines. Journal of Power and Energy Engineering, 2019, 07, 27-44.	0.3	24
47	Revisiting the elasticity solution for a simply supported beam under sinusoidal load. International Journal of Mechanical Engineering Education, 2018, 46, 41-49.	0.6	3
48	Three-layered plate exhibiting auxeticity based on stretching and bending modes. Composite Structures, 2018, 194, 643-651.	3.1	25
49	Simplified Design Equations for a Class of Rhombic Auxetic Plates. MATEC Web of Conferences, 2018, 206, 01009.	0.1	1
50	Auxeticity of Concentric Auxetic-Conventional Foam Rods with High Modulus Interface Adhesive. Materials, 2018, 11, 223.	1.3	13
51	A convenient and accurate wide-range parameter relationship between Buckingham and Morse potential energy functions. Molecular Physics, 2018, 116, 1127-1132.	0.8	3
52	Analogies across auxetic models based on deformation mechanism. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1600440.	1.2	92
53	Defect Clustering in Rare-Earth-Doped BaTiO₃ and SrTiO₃ and Its Influence on Dopant Incorporation. Journal of Physical Chemistry C, 2017, 121, 23642-23648.	1.5	35
54	2D Structures Exhibiting Negative Area Compressibility. Physica Status Solidi (B): Basic Research, 2017, 254, 1600682.	0.7	30

#	Article	IF	Citations
55	Refined shear correction of polygonal plates with static loads. Proceedings of the Institution of Civil Engineers: Engineering and Computational Mechanics, 2017, 170, 167-173.	0.4	5
56	An Accurate Design Equation for the Maximum Deflection in a Class of Auxetic Sectorial Plates. Physica Status Solidi (B): Basic Research, 2017, 254, 1600784.	0.7	7
57	Auxetic and Negative Thermal Expansion Structure Based on Interconnected Array of Rings and Sliding Rods. Physica Status Solidi (B): Basic Research, 2017, 254, 1600775.	0.7	26
58	On the self starting of darrieus turbine : An experimental investigation with secondary rotor. , 2017, , .		6
59	Shear Deformation in a Class of Thick Hexagonal Plates. Physica Status Solidi (B): Basic Research, 2017, 254, 1700014.	0.7	9
60	On the Mathematical Modelling of Adaptive Darrieus Wind Turbine. Journal of Power and Energy Engineering, 2017, 05, 133-158.	0.3	4
61	Wind Tunnel Validation of Double Multiple Streamtube Model for Vertical Axis Wind Turbine. Smart Grid and Renewable Energy, 2017, 08, 412-424.	0.7	8
62	Performance Assessment of Darrieus Turbine with Modified Trailing Edge Airfoil for Low Wind Speeds. Smart Grid and Renewable Energy, 2017, 08, 425-439.	0.7	11
63	A 3D auxetic material based on intersecting double arrowheads. Physica Status Solidi (B): Basic Research, 2016, 253, 1252-1260.	0.7	65
64	Combined Effect of Load Waviness and Auxeticity on the Shear Deformation in a Class of Rectangular Plates. IOP Conference Series: Materials Science and Engineering, 2016, 157, 012011.	0.3	1
65	Large Deflection of Circular Auxetic Membranes Under Uniform Load. Journal of Engineering Materials and Technology, Transactions of the ASME, 2016, 138, .	0.8	21
66	Refined shear correction factor for very thick simply supported and uniformly loaded isosceles right triangular auxetic plates. Smart Materials and Structures, 2016, 25, 054001.	1.8	9
67	Longitudinal wave motion in width-constrained auxetic plates. Smart Materials and Structures, 2016, 25, 054008.	1.8	10
68	Dynamic behaviour of auxetic gradient composite hexagonal honeycombs. Composite Structures, 2016, 149, 114-124.	3.1	154
69	Simply-Supported Elliptical Auxetic Plates. Journal of Mechanics, 2016, 32, 413-419.	0.7	15
70	Plane Waves of Dilatation in Auxetic Bulk Solids. Materials Science Forum, 2016, 866, 206-210.	0.3	4
71	A 3D auxetic material based on intersecting double arrowheads (Phys. Status Solidi B 7/2016). Physica Status Solidi (B): Basic Research, 2016, 253, 1452-1452.	0.7	2
72	Bending Stresses in Triangular Auxetic Plates. Journal of Engineering Materials and Technology, Transactions of the ASME, 2016, 138, .	0.8	13

#	Article	IF	Citations
73	Higher-order shear deformation of very thick simply supported equilateral triangular plates under uniform load. Mechanics Based Design of Structures and Machines, 2016, 44, 514-522.	3.4	13
74	Effect of longitudinal stress on wave propagation in widthâ€constrained elastic plates with arbitrary Poisson's ratio. Physica Status Solidi (B): Basic Research, 2015, 252, 1615-1619.	0.7	20
75	Elastic stability analysis of auxetic columns using thirdâ€order shear deformation theory. Physica Status Solidi (B): Basic Research, 2015, 252, 1575-1579.	0.7	7
76	Effect of nodule shape for modeling of auxetic microporous polymers. MATEC Web of Conferences, 2015, 34, 01002.	0.1	1
77	Auxetic Materials and Structures. Engineering Materials, 2015, , .	0.3	243
78	Simple Semi-auxetic Solids. Engineering Materials, 2015, , 475-532.	0.3	0
79	Wave Transmission and Reflection Involving Auxetic Solids. Engineering Materials, 2015, , 385-404.	0.3	0
80	Wave Propagation in Auxetic Solids. Engineering Materials, 2015, , 367-383.	0.3	1
81	Vibration of Auxetic Solids. Engineering Materials, 2015, , 345-365.	0.3	0
82	Auxetic Beams. Engineering Materials, 2015, , 201-215.	0.3	0
83	Micromechanical Models for Auxetic Materials. Engineering Materials, 2015, , 45-105.	0.3	1
84	Elasticity of Auxetic Solids. Engineering Materials, 2015, , 107-145.	0.3	0
85	Longitudinal Wave Velocity in Auxetic Rods. Journal of Engineering Materials and Technology, Transactions of the ASME, 2015, 137, .	0.8	18
86	Shear deformation in beams with negative Poissonâ€™s ratio. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2015, 229, 447-454.	0.7	10
87	Thermal Stresses in Auxetic Plates and Shells. Mechanics of Advanced Materials and Structures, 2015, 22, 205-212.	1.5	36
88	Buckling and Vibration of Circular Auxetic Plates. Journal of Engineering Materials and Technology, Transactions of the ASME, 2014, 136, .	0.8	35
89	Shear Deformation in Rectangular Auxetic Plates. Journal of Engineering Materials and Technology, Transactions of the ASME, 2014, 136, .	0.8	17
90	Wave motion in auxetic solids. Physica Status Solidi (B): Basic Research, 2014, 251, 388-396.	0.7	22

#	Article	IF	Citations
91	Semi-auxetic yarns. Physica Status Solidi (B): Basic Research, 2014, 251, 273-280.	0.7	37
92	FLEXURAL RIGIDITY OF THIN AUXETIC PLATES. International Journal of Applied Mechanics, 2014, 06, 1450012.	1.3	16
93	Elastic stability of thick auxetic plates. Smart Materials and Structures, 2014, 23, 045004.	1.8	19
94	Experimental studies on the impact properties of auxetic materials. Physica Status Solidi (B): Basic Research, 2014, 251, 307-313.	0.7	60
95	Vibration of thick auxetic plates. Mechanics Research Communications, 2014, 61, 60-66.	1.0	30
96	Optimal Poissonâ€™s ratios for laterally loaded rectangular plates. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2013, 227, 111-123.	0.7	7
97	Thermal Stresses in Thin Auxetic Plates. Journal of Thermal Stresses, 2013, 36, 1131-1140.	1.1	24
98	Circular Auxetic Plates. Journal of Mechanics, 2013, 29, 121-133.	0.7	30
99	Automated diagnosis of Coronary Artery Disease affected patients using LDA, PCA, ICA and Discrete Wavelet Transform. Knowledge-Based Systems, 2013, 37, 274-282.	4.0	192
100	Stress wave transmission and reflection through auxetic solids. Smart Materials and Structures, 2013, 22, 084002.	1.8	15
101	<I>A Special Section on</I> Healthcare Informatics. Journal of Medical Imaging and Health Informatics, 2013, 3, 393-394.	0.2	1
102	Automated Detection of Premature Ventricular Contraction Using Recurrence Quantification Analysis on Heart Rate Signals. Journal of Medical Imaging and Health Informatics, 2013, 3, 462-469.	0.2	5
103	<I>A Special Section on</I> Healthcare Informatics (Part III). Journal of Medical Imaging and Health Informatics, 2013, 3, 566-567.	0.2	3
104	A Systems Approach to Cardiac Health Diagnosis. Journal of Medical Imaging and Health Informatics, 2013, 3, 261-267.	0.2	11
105	<I>A Special Section on</I> Healthcare Informatics. Journal of Medical Imaging and Health Informatics, 2013, 3, 268-269.	0.2	3
106	Spherical Auxetic Shells. Advanced Materials Research, 2013, 804, 146-150.	0.3	8
107	Shear deformation in thick auxetic plates. Smart Materials and Structures, 2013, 22, 084001.	1.8	24
108	Automated Detection of Diabetes by Means of Higher Order Spectral Features Obtained from Heart Rate Signals. Journal of Medical Imaging and Health Informatics, 2013, 3, 440-447.	0.2	21

#	Article	IF	Citations
109	Negative thermal expansion in transversely isotropic space frame trusses. Physica Status Solidi (B): Basic Research, 2013, 250, 2062-2069.	0.7	22
110	Review of Data Mining Methodologies for Healthcare Applications. Journal of Medical Imaging and Health Informatics, 2013, 3, 288-293.	0.2	3
111	ANALYSIS OF AUXETIC BEAMS AS RESONANT FREQUENCY BIOSENSORS. Journal of Mechanics in Medicine and Biology, 2012, 12, 1240027.	0.3	3
112	AUTOMATED IDENTIFICATION OF EPILEPTIC AND ALCOHOLIC EEG SIGNALS USING RECURRENCE QUANTIFICATION ANALYSIS. Journal of Mechanics in Medicine and Biology, 2012, 12, 1240028.	0.3	11
113	COMPREHENSIVE ANALYSIS OF NORMAL AND DIABETIC HEART RATE SIGNALS: A REVIEW. Journal of Mechanics in Medicine and Biology, 2012, 12, 1240033.	0.3	11
114	Mixed auxeticity of auxetic sandwich structures. Physica Status Solidi (B): Basic Research, 2012, 249, 1366-1372.	0.7	32
115	A power series potential energy function with adjustable index. Journal of Mathematical Chemistry, 2012, 50, 1091-1099.	0.7	0
116	A survey and comparative study on the instruments for glaucoma detection. Medical Engineering and Physics, 2012, 34, 129-139.	0.8	43
117	Negative thermal expansion structures constructed from positive thermal expansion trusses. Journal of Materials Science, 2012, 47, 368-373.	1.7	41
118	Review of Data Mining Methods with Applications for Rehabilitation Engineering, Human Factors, and Diagnostics. , 2012, , 447-460.		2
119	Automated detection of sleep apnea from electrocardiogram signals using nonlinear parameters. Physiological Measurement, 2011, 32, 287-303.	1.2	77
120	UNITED ATOM MODEL APPROACH FOR DESCRIBING C60 INTERACTION ENERGY IN MOLECULAR MECHANICS. Journal of Theoretical and Computational Chemistry, 2011, 10, 423-434.	1.8	2
121	Modeling and Simulation of Polymeric Nanocomposite Processing. Advanced Structured Materials, 2011, , 119-134.	0.3	0
122	Torsion of semi-auxetic rods. Journal of Materials Science, 2011, 46, 6904-6909.	1.7	15
123	Application of extended-Rydberg parameters in general Morse potential functions. Journal of Mathematical Chemistry, 2011, 49, 1086-1091.	0.7	8
124	Split series potential energy function. Journal of Mathematical Chemistry, 2011, 49, 1180-1191.	0.7	2
125	Coefficient of thermal expansion of stacked auxetic and negative thermal expansion laminates. Physica Status Solidi (B): Basic Research, 2011, 248, 140-147.	0.7	35
126	Counterintuitive modulus from semiâ€auxetic laminates. Physica Status Solidi (B): Basic Research, 2011, 248, 60-65.	0.7	32

#	Article	IF	Citations
127	Size-Dependency Consideration of Montmorillonite-Reinforced Nylon-6 Via Interfacial Stiffness. Journal of Thermoplastic Composite Materials, 2011, 24, 601-611.	2.6	5
128	Computer-Based Identification of Diabetic Maculopathy Stages Using Fundus Images. , 2011, , 377-399.		7
129	Performance Evaluation of Auxetic Molecular Sieves with Re-Entrant Structures. Journal of Biomedical Nanotechnology, 2010, 6, 718-724.	0.5	30
130	Application of Kihara parameters in conventional molecular force fields. Journal of Mathematical Chemistry, 2010, 48, 363-369.	0.7	6
131	Modification of Morse potential in conventional force fields for applying FPDP parameters. Journal of Mathematical Chemistry, 2010, 47, 984-989.	0.7	8
132	Identification of Cataract and Post-cataract Surgery Optical Images Using Artificial Intelligence Techniques. Journal of Medical Systems, 2010, 34, 619-628.	2.2	27
133	Geometrical Correction to the Elastic Stiffness of Particulate Composites. Journal of Reinforced Plastics and Composites, 2010, 29, 94-104.	1.6	1
134	Correction Factors for the Analytical Transverse Stiffness of Unidirectional Fiber Composites. Journal of Thermoplastic Composite Materials, 2010, 23, 389-399.	2.6	0
135	In-Plane Stiffness of Semiauxetic Laminates. Journal of Engineering Mechanics - ASCE, 2010, 136, 1176-1180.	1.6	41
136	Preliminary assessment of a multifunctional potential energy function. Molecular Physics, 2010, 108, 1589-1597.	0.8	6
137	Automated identification of diabetes type-2 subjects with and without neuropathy using eigenvalues. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2010, 224, 43-52.	1.0	8
138	Longitudinal Modulus of Semi-auxetic Unidirectional Fiber Composites. Journal of Reinforced Plastics and Composites, 2010, 29, 1441-1445.	1.6	15
139	Alignment of Buckingham Parameters to Generalized Lennard-Jones Potential Functions. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2009, 64, 200-204.	0.7	17
140	Obtaining the Varshni potential function using the 2-body Kaxiras-Pandey parameters. Journal of the Serbian Chemical Society, 2009, 74, 1423-1428.	0.4	5
141	Non-linear analysis of body responses to functional electrical stimulation on hemiplegic subjects. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2009, 223, 653-662.	1.0	7
142	Coefficient interrelatedness among polynomial potential functions of diatomic molecules. Journal of Mathematical Chemistry, 2009, 45, 953-961.	0.7	0
143	Approximation of the Dymond-Rigby-Smith potential function using the Lennard-Jones form. Journal of Mathematical Chemistry, 2009, 46, 569-575.	0.7	1
144	Automated Diagnosis of Glaucoma Using Digital Fundus Images. Journal of Medical Systems, 2009, 33, 337-346.	2.2	241

#	Article	IF	Citations
145	Out-of-plane modulus of semi-auxetic laminates. European Journal of Mechanics, A/Solids, 2009, 28, 752-756.	2.1	45
146	An hexagonal array of fourfold interconnected hexagonal nodules for modeling auxetic microporous polymers: a comparison of 2D and 3D models. Journal of Materials Science, 2009, 44, 4491-4494.	1.7	10
147	Relations between Varshni and Morse potential energy parameters. Open Physics, 2009, 7, .	0.8	3
148	AUTOMATIC IDENTIFICATION OF EPILEPTIC EEG SIGNALS USING NONLINEAR PARAMETERS. Journal of Mechanics in Medicine and Biology, 2009, 09, 539-553.	0.3	101
149	Potential energy function based on the narcissus constant, its square and its cube. Journal of Mathematical Chemistry, 2008, 43, 304-313.	0.7	1
150	Connection between the Ogilvie and the Murrellâ€“Sorbie potential energy functions. Journal of Mathematical Chemistry, 2008, 43, 1345-1354.	0.7	1
151	Improved long range relationship between parameters of the Morse and Rydberg potential functions. Journal of Mathematical Chemistry, 2008, 43, 1573-1577.	0.7	3
152	Obtaining the Morse parameter for large bond-stretching using Murrell-Sorbie parameters. Journal of Molecular Modeling, 2008, 14, 103-108.	0.8	4
153	Calculation of Rydberg potential energy curve from Murrellâ€“Sorbie parameters. Molecular Physics, 2008, 106, 753-758.	0.8	5
154	UTILIZATION OF GENERALIZED MORSE PARAMETERS FOR CONVENTIONAL MORSE FUNCTIONS USED IN MOLECULAR MECHANICS. Journal of Theoretical and Computational Chemistry, 2008, 07, 1085-1091.	1.8	1
155	Extraction of Dunham Coefficients from Murrell-Sorbie Parameters. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2008, 63, 1-6.	0.7	2
156	92.12 Two infinite nested radical constants. Mathematical Gazette, 2008, 92, 96-97.	0.0	0
157	Alternative scaling factor between Lennard-Jones and Exponential-6 potential energy functions. Molecular Simulation, 2007, 33, 1029-1032.	0.9	9
158	Long range relationship between Morse and Lennardâ€“Jones potential energy functions. Molecular Physics, 2007, 105, 1013-1018.	0.8	11
159	On simultaneous positive and negative Poisson's ratio laminates. Physica Status Solidi (B): Basic Research, 2007, 244, 910-918.	0.7	29
160	Kinematical studies on rotation-based semi-auxetics. Journal of Materials Science, 2007, 42, 7690-7695.	1.7	4
161	Application of Extended-Rydberg Parameters for Extracting the 2-Body Portion of Kaxirasâ€“Pandey Function. Journal of Mathematical Chemistry, 2007, 41, 135-142.	0.7	4
162	On the Applicability of Mathematical Constants and Sequences in Intermolecular Potential Energy Functions. Journal of Mathematical Chemistry, 2007, 41, 381-391.	0.7	3

#	Article	IF	Citations
163	Combination of pi and Golden Ratio in Lennardâ€“Jones-Type and Morse-Type Potential Energy Functions. Journal of Mathematical Chemistry, 2007, 42, 93-101.	0.7	2
164	Obtaining Simonsâ€“Parrâ€“Finlan coefficients using Murrellâ€“Sorbie parameters. Chemical Physics, 2007, 331, 270-274.	0.9	17
165	Relationship and discrepancies between the Extended-Rydberg and the Generalized Buckingham potential energy functions. Journal of the Serbian Chemical Society, 2007, 72, 159-164.	0.4	5
166	Connection between parameters of the Murrellâ€“Sorbie and Fayyazuddin potentials. Molecular Physics, 2006, 104, 1827-1831.	0.8	15
167	Modified Halpin-Tsai Equation for Clay-Reinforced Polymer Nanofiber. Mechanics of Advanced Materials and Structures, 2006, 13, 77-81.	1.5	28
168	Application of binomial coefficients in representing central difference solution to a class of PDE arising in chemistry. Journal of Mathematical Chemistry, 2006, 39, 177-186.	0.7	2
169	Refined relationship between extended Rydberg and generalized Morse functions for a special class of diatoms. European Physical Journal D, 2006, 56, 149-156.	0.4	0
170	A Conceptual Review of Nanosensors. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2006, 61, 402-412.	0.7	35
171	Next-Generation Applications for Polymeric Nanofibres. , 2005, , 137-147.		2
172	A functionally flexible interatomic energy function based on classical potentials. Chemical Physics, 2005, 320, 54-58.	0.9	26
173	Polynomial Forms of Typical Interatomic Potential Functions. Journal of Mathematical Chemistry, 2005, 38, 495-501.	0.7	8
174	Correlation among parameters of the extended-Rydberg potential energy function. Journal of Mathematical Chemistry, 2005, 38, 195-201.	0.7	8
175	Size-dependency of nano-scale inclusions. Journal of Materials Science, 2005, 40, 3841-3842.	1.7	6
176	Anisotropic and negative thermal expansion behavior in a cellular microstructure. Journal of Materials Science, 2005, 40, 3275-3277.	1.7	56
177	Two-body relationship between the Pearson-Takai-Halicioglu-Tiller and the Biswas-Hamann potential functions. Brazilian Journal of Physics, 2005, 35, 641-644.	0.7	5
178	A Relationship Between the 2-body Energy of Kaxirasâ€“Pandey and Pearsonâ€“Takaiâ€“Haliciogluâ€“Tiller Potential Functions. Physica Scripta, 2004, 70, 347-348.	1.2	22
179	Relationship between the 2-body Energy of the Biswas-Hamann and the Murrell-Mottram Potential Functions. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2004, 59, 116-118.	0.7	9
180	Relationship between the 2-body Parameters of the Biswas-Hamann and the Bauer-Maysenholder-Seeger Potential Functions. European Physical Journal D, 2004, 54, 553-559.	0.4	11

#	Article	IF	Citations
181	Connection between the 2-body Energy of the Kaxiras-Pandey and the Biswas-Hamann Potentials. European Physical Journal D, 2004, 54, 947-963.	0.4	11
182	Elastic properties of a Poissonâ€“Shear material. Journal of Materials Science, 2004, 39, 4965-4969.	1.7	16
183	Application of Maclaurin Series in Relating Interatomic Potential Functions: A Review. Journal of Mathematical Chemistry, 2004, 36, 147-160.	0.7	15
184	Relationship Between Morse and Murrell-Mottram Potentials at Long Range. Journal of Mathematical Chemistry, 2004, 36, 139-145.	0.7	11
185	Connection Among Classical Interatomic Potential Functions. Journal of Mathematical Chemistry, 2004, 36, 261-269.	0.7	18
186	Relationship and Discrepancies Among Typical Interatomic Potential Functions. Chinese Physics Letters, 2004, 21, 2167-2170.	1.3	16
187	Recent Advances In Tissue Engineering Applications Of Electrospun Nanofibers. Materials Technology, 2004, 19, 20-27.	1.5	14
188	Mathematical Connections Between Bond-Stretching Potential Functions. Journal of Mathematical Chemistry, 2003, 33, 29-37.	0.7	15
189	Scaling Function Between the Exponential-6 and the Generalized Lennard-Jones Potential Functions. Journal of Mathematical Chemistry, 2003, 33, 279-285.	0.7	16
190	Spring Constant Analogy for Estimating Stiffness of a Single Polyethylene Molecule. Journal of Mathematical Chemistry, 2003, 34, 151-161.	0.7	5
191	Elastic Properties of a Polyethylene Single-Molecule. Journal of Mathematical Chemistry, 2003, 34, 215-220.	0.7	2
192	Exact Non-Linear Relationship Between Exponential-6 and Lennard-Jones (12-6) Potential Functions. Journal of Mathematical Chemistry, 2003, 34, 221-225.	0.7	12
193	Constitutive relationship of a material with unconventional Poisson's ratio. Journal of Materials Science Letters, 2003, 22, 1783-1786.	0.5	24
194	A three-level hierarchical approach in modeling sheet thermoforming of knitted-fabric composites. International Journal of Mechanical Sciences, 2003, 45, 1097-1117.	3.6	7
195	Simplified Model for the Influence of Inclusion Aspect Ratio on the Stiffness of Aligned Reinforced Composites. Journal of Reinforced Plastics and Composites, 2003, 22, 301-325.	1.6	6
196	Simplified Transverse Youngâ€™s Modulus of Aligned Ribbon-Reinforced Composites by the Mechanics-of-Materials Approach. Journal of Reinforced Plastics and Composites, 2003, 22, 257-269.	1.6	3
197	The Relationship between Lennard-Jones (12-6) and Morse Potential Functions. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2003, 58, 615-617.	0.7	46
198	Elastic Stiffness of Three-Phase Composites by the Generalized Mechanics-of-Materials (GMM) Approach. Journal of Thermoplastic Composite Materials, 2002, 15, 155-167.	2.6	6

#	Article	IF	Citations
199	Modelling of composite sheet forming: a review. Composites Part A: Applied Science and Manufacturing, 2002, 33, 515-537.	3.8	58
200	Unified practical bounds for the thermal conductivity of composite materials. Materials Letters, 2002, 54, 152-157.	1.3	19
201	Analytical modelling for sheet thermoforming of knitted fabric reinforced PMC. Journal of Materials Science, 2002, 37, 871-877.	1.7	5
202	Material structure for attaining pure Poisson-shearing. Journal of Materials Science Letters, 2002, 21, 1595-1597.	0.5	12
203	A Note on Mathematical Relationships Among Bond-Torsion Force Fields. Journal of Mathematical Chemistry, 2002, 31, 421-428.	0.7	12
204	Functionally graded beam for attaining Poisson-curving. Journal of Materials Science Letters, 2002, 21, 1899-1901.	0.5	64
205	Mathematical Relationships Between Bond-Bending Force Fields. Journal of Mathematical Chemistry, 2002, 32, 249-256.	0.7	13
206	Sheet forming kinematics of curved-textile composites by the mapping scheme. Mechanics Research Communications, 2000, 27, 29-36.	1.0	2
207	Strain field of deep drawn knitted fabric reinforced thermoplastic composite sheets. Journal of Materials Processing Technology, 2000, 97, 95-99.	3.1	7
208	Simultaneous stretch forming and deep drawing in axisymmetrical sheet forming. Journal of Materials Processing Technology, 2000, 97, 82-87.	3.1	3
209	Effect of textile geometry on axisymmetric stretch forming of knitted fabric composites. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2000, 214, 333-337.	1.5	5
210	Deep Drawing Simulation of Knitted Fabric Composites Considering Geometrical Non-Linearity. Science and Engineering of Composite Materials, 1999, 8, 113-122.	0.6	5
211	Sheet forming simulation of knitted fabric composites considering fabric reorientation. Mechanics Research Communications, 1999, 26, 209-215.	1.0	3
212	Axisymmetric sheet forming of knitted fabric composite by combined stretch forming and deep drawing. Composites Part B: Engineering, 1999, 30, 495-502.	5.9	20
213	Optimization of the formability of knitted fabric composite sheet by means of combined deep drawing and stretch forming. Journal of Materials Processing Technology, 1999, 89-90, 99-103.	3.1	21
214	SIMULTANEOUS DEEP DRAWING AND STRETCH FORMING OF KNITTED FABRIC COMPOSITE SHEET. Zairyo/Journal of the Society of Materials Science, Japan, 1999, 48, 57-61.	0.1	0
215	Stress Concentration Factors in Auxetic Rods and Plates. Applied Mechanics and Materials, 0, 394, 134-139.	0.2	5
216	Rotating Disks Made from Materials with Negative Poisson's Ratio. Advanced Materials Research, 0, 804, 347-352.	0.3	4

#	Article	IF	Citations
217	Auxetic Plates on Auxetic Foundation. Advanced Materials Research, 0, 974, 398-401.	0.3	12