Teik-Cheng Lim

List of Publications by Year
in descending order

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218 papers	5,035 citations	159585 30 h-index	182427 51 g-index

239 all docs	239 docs citations	239 times ranked	3802 citing authors

#	Article	IF	Citations
1	Auxetic Materials and Structures. Engineering Materials, 2015, , .	0.6	243
2	Automated Diagnosis of Glaucoma Using Digital Fundus Images. Journal of Medical Systems, 2009, 33, 337-346.	3.6	241
3	Automated diagnosis of Coronary Artery Disease affected patients using LDA, PCA, ICA and Discrete Wavelet Transform. Knowledge-Based Systems, 2013, 37, 274-282.	7.1	192
4	Dynamic behaviour of auxetic gradient composite hexagonal honeycombs. Composite Structures, 2016, 149, 114-124.	5.8	154
5	AUTOMATIC IDENTIFICATION OF EPILEPTIC EEG SIGNALS USING NONLINEAR PARAMETERS. Journal of Mechanics in Medicine and Biology, 2009, 09, 539-553.	0.7	101
6	Analogies across auxetic models based on deformation mechanism. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1600440.	2.4	92
7	Automated detection of sleep apnea from electrocardiogram signals using nonlinear parameters. Physiological Measurement, 2011, 32, 287-303.	2.1	77
8	Mechanics of Metamaterials with Negative Parameters. Engineering Materials, 2020, , .	0.6	70
9	A 3D auxetic material based on intersecting double arrowheads. Physica Status Solidi (B): Basic Research, 2016, 253, 1252-1260.	1.5	65
10	Functionally graded beam for attaining Poisson-curving. Journal of Materials Science Letters, 2002, 21, 1899-1901.	0.5	64
11	Experimental studies on the impact properties of auxetic materials. Physica Status Solidi (B): Basic Research, 2014, 251, 307-313.	1.5	60
12	Modelling of composite sheet forming: a review. Composites Part A: Applied Science and Manufacturing, 2002, 33, 515-537.	7.6	58
13	Anisotropic and negative thermal expansion behavior in a cellular microstructure. Journal of Materials Science, 2005, 40, 3275-3277.	3.7	56
14	The Relationship between Lennard-Jones (12-6) and Morse Potential Functions. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2003, 58, 615-617.	1.5	46
15	Out-of-plane modulus of semi-auxetic laminates. European Journal of Mechanics, A/Solids, 2009, 28, 752-756.	3.7	45
16	A survey and comparative study on the instruments for glaucoma detection. Medical Engineering and Physics, 2012, 34, 129-139.	1.7	43
17	Composite microstructures with Poissonâ€™s ratio sign switching upon stress reversal. Composite Structures, 2019, 209, 34-44.	5.8	42
18	In-Plane Stiffness of Semiauxetic Laminates. Journal of Engineering Mechanics - ASCE, 2010, 136, 1176-1180.	2.9	41

#	Article	IF	Citations
19	Negative thermal expansion structures constructed from positive thermal expansion trusses. Journal of Materials Science, 2012, 47, 368-373.	3.7	41
20	A class of shape-shifting composite metamaterial honeycomb structures with thermally-adaptive Poissonâ€™s ratio signs. Composite Structures, 2019, 226, 111256.	5.8	39
21	Semi-auxetic yarns. Physica Status Solidi (B): Basic Research, 2014, 251, 273-280.	1.5	37
22	Metamaterials with Poissonâ€™s ratio sign toggling by means of microstructural duality. SN Applied Sciences, 2019, 1, 1.	2.9	37
23	Thermal Stresses in Auxetic Plates and Shells. Mechanics of Advanced Materials and Structures, 2015, 22, 205-212.	2.6	36
24	A Conceptual Review of Nanosensors. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2006, 61, 402-412.	1.5	35
25	Coefficient of thermal expansion of stacked auxetic and negative thermal expansion laminates. Physica Status Solidi (B): Basic Research, 2011, 248, 140-147.	1.5	35
26	Buckling and Vibration of Circular Auxetic Plates. Journal of Engineering Materials and Technology, Transactions of the ASME, 2014, 136, .	1.4	35
27	Defect Clustering in Rare-Earth-Doped BaTiO₃ and SrTiO₃ and Its Influence on Dopant Incorporation. Journal of Physical Chemistry C, 2017, 121, 23642-23648.	3.1	35
28	2D metamaterial with in-plane positive and negative thermal expansion and thermal shearing based on interconnected alternating bimaterials. Materials Research Express, 2019, 6, 115804.	1.6	35
29	Counterintuitive modulus from semiâ€auxetic laminates. Physica Status Solidi (B): Basic Research, 2011, 248, 60-65.	1.5	32
30	Mixed auxeticity of auxetic sandwich structures. Physica Status Solidi (B): Basic Research, 2012, 249, 1366-1372.	1.5	32
31	Performance Evaluation of Auxetic Molecular Sieves with Re-Entrant Structures. Journal of Biomedical Nanotechnology, 2010, 6, 718-724.	1.1	30
32	Circular Auxetic Plates. Journal of Mechanics, 2013, 29, 121-133.	1.4	30
33	Vibration of thick auxetic plates. Mechanics Research Communications, 2014, 61, 60-66.	1.8	30
34	2D Structures Exhibiting Negative Area Compressibility. Physica Status Solidi (B): Basic Research, 2017, 254, 1600682.	1.5	30
35	On simultaneous positive and negative Poisson's ratio laminates. Physica Status Solidi (B): Basic Research, 2007, 244, 910-918.	1.5	29
36	Composite metamaterial with sign-switchable coefficients of hygroscopic, thermal and pressure expansions. Advanced Composites and Hybrid Materials, 2019, 2, 657-669.	21.1	29

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37	Metacomposite with auxetic and in situ sign reversible thermal expansivity upon temperature fluctuation. Composites Communications, 2020, 19, 30-36.	6.3	29
38	Modified Halpin-Tsai Equation for Clay-Reinforced Polymer Nanofiber. Mechanics of Advanced Materials and Structures, 2006, 13, 77-81.	2.6	28
39	A composite metamaterial with sign switchable elastic and hygrothermal properties induced by stress direction and environmental change reversals. Composite Structures, 2019, 220, 185-193.	5.8	28
40	Identification of Cataract and Post-cataract Surgery Optical Images Using Artificial Intelligence Techniques. Journal of Medical Systems, 2010, 34, 619-628.	3.6	27
41	A functionally flexible interatomic energy function based on classical potentials. Chemical Physics, 2005, 320, 54-58.	1.9	26
42	Auxetic and Negative Thermal Expansion Structure Based on Interconnected Array of Rings and Sliding Rods. Physica Status Solidi (B): Basic Research, 2017, 254, 1600775.	1.5	26
43	Three-layered plate exhibiting auxeticity based on stretching and bending modes. Composite Structures, 2018, 194, 643-651.	5.8	25
44	Negative Environmental Expansion for Interconnected Array of Rings and Sliding Rods. Physica Status Solidi (B): Basic Research, 2019, 256, 1800032.	1.5	25
45	Constitutive relationship of a material with unconventional Poisson's ratio. Journal of Materials Science Letters, 2003, 22, 1783-1786.	0.5	24
46	Thermal Stresses in Thin Auxetic Plates. Journal of Thermal Stresses, 2013, 36, 1131-1140.	2.0	24
47	Shear deformation in thick auxetic plates. Smart Materials and Structures, 2013, 22, 084001.	3.5	24
48	A Review on the Evolution of Darrieus Vertical Axis Wind Turbine: Small Wind Turbines. Journal of Power and Energy Engineering, 2019, 07, 27-44.	0.6	24
49	A Relationship Between the 2-body Energy of Kaxirasâ€“Pandey and Pearsonâ€“Takaiâ€“Halicioguâ€“Tiller Potential Functions. Physica Scripta, 2004, 70, 347-348.	2.5	22
50	Negative thermal expansion in transversely isotropic space frame trusses. Physica Status Solidi (B): Basic Research, 2013, 250, 2062-2069.	1.5	22
51	Wave motion in auxetic solids. Physica Status Solidi (B): Basic Research, 2014, 251, 388-396.	1.5	22
52	Metacomposite structure with sign-changing coefficients of hygrothermal expansions inspired by Islamic motif. Composite Structures, 2020, 251, 112660.	5.8	22
53	Composite metamaterial square grids with sign-flipping expansion coefficients leading to a type of Islamic design. SN Applied Sciences, 2020, 2, 1.	2.9	22
54	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.	6.3	21

#	Article	IF	Citations
55	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.	0.3	21
56	Large Deflection of Circular Auxetic Membranes Under Uniform Load. Journal of Engineering Materials and Technology, Transactions of the ASME, 2016, 138, .	1.4	21
57	Axisymmetric sheet forming of knitted fabric composite by combined stretch forming and deep drawing. Composites Part B: Engineering, 1999, 30, 495-502.	12.0	20
58	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.	1.5	20
59	Unified practical bounds for the thermal conductivity of composite materials. Materials Letters, 2002, 54, 152-157.	2.6	19
60	Elastic stability of thick auxetic plates. Smart Materials and Structures, 2014, 23, 045004.	3.5	19
61	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.	21.1	19
62	Connection Among Classical Interatomic Potential Functions. Journal of Mathematical Chemistry, 2004, 36, 261-269.	1.5	18
63	Longitudinal Wave Velocity in Auxetic Rods. Journal of Engineering Materials and Technology, Transactions of the ASME, 2015, 137, .	1.4	18
64	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.	1.5	18
65	Obtaining Simonsâ€“Parrâ€“Finlan coefficients using Murrellâ€“Sorbie parameters. Chemical Physics, 2007, 331, 270-274.	1.9	17
66	Alignment of Buckingham Parameters to Generalized Lennard-Jones Potential Functions. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2009, 64, 200-204.	1.5	17
67	Shear Deformation in Rectangular Auxetic Plates. Journal of Engineering Materials and Technology, Transactions of the ASME, 2014, 136, .	1.4	17
68	Negative Hygrothermal Expansion of Reinforced Double Arrowhead Microstructure. Physica Status Solidi (B): Basic Research, 2020, 257, 1800055.	1.5	17
69	Adjustable positive and negative hygrothermal expansion metamaterial inspired by the Maltese cross. Royal Society Open Science, 2021, 8, 210593.	2.4	17
70	Scaling Function Between the Exponential-6 and the Generalized Lennard-Jones Potential Functions. Journal of Mathematical Chemistry, 2003, 33, 279-285.	1.5	16
71	Elastic properties of a Poissonâ€“Shear material. Journal of Materials Science, 2004, 39, 4965-4969.	3.7	16
72	Relationship and Discrepancies Among Typical Interatomic Potential Functions. Chinese Physics Letters, 2004, 21, 2167-2170.	3.3	16

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73	FLEXURAL RIGIDITY OF THIN AUXETIC PLATES. International Journal of Applied Mechanics, 2014, 06, 1450012.	2.2	16
74	Mathematical Connections Between Bond-Stretching Potential Functions. Journal of Mathematical Chemistry, 2003, 33, 29-37.	1.5	15
75	Application of Maclaurin Series in Relating Interatomic Potential Functions: A Review. Journal of Mathematical Chemistry, 2004, 36, 147-160.	1.5	15
76	Connection between parameters of the Murrellâ€“Sorbie and Fayyazuddin potentials. Molecular Physics, 2006, 104, 1827-1831.	1.7	15
77	Longitudinal Modulus of Semi-auxetic Unidirectional Fiber Composites. Journal of Reinforced Plastics and Composites, 2010, 29, 1441-1445.	3.1	15
78	Torsion of semi-auxetic rods. Journal of Materials Science, 2011, 46, 6904-6909.	3.7	15
79	Stress wave transmission and reflection through auxetic solids. Smart Materials and Structures, 2013, 22, 084002.	3.5	15
80	Simply-Supported Elliptical Auxetic Plates. Journal of Mechanics, 2016, 32, 413-419.	1.4	15
81	A 2D auxetikos system based on interconnected shurikens. SN Applied Sciences, 2019, 1, 1.	2.9	15
82	Review on the Evolution of Darrieus Vertical Axis Wind Turbine: Large Wind Turbines. Clean Technologies, 2019, 1, 205-223.	4.2	15
83	Strategies for Enhancing the Low Wind Speed Performance of H-Darrieus Wind Turbineâ€”Part 1. Clean Technologies, 2019, 1, 185-204.	4.2	15
84	A perfect 2D auxetic sliding mechanism based on an Islamic geometric pattern. Engineering Research Express, 2021, 3, 015025.	1.6	15
85	Recent Advances In Tissue Engineering Applications Of Electrospun Nanofibers. Materials Technology, 2004, 19, 20-27.	3.0	14
86	Mathematical Relationships Between Bond-Bending Force Fields. Journal of Mathematical Chemistry, 2002, 32, 249-256.	1.5	13
87	Bending Stresses in Triangular Auxetic Plates. Journal of Engineering Materials and Technology, Transactions of the ASME, 2016, 138, .	1.4	13
88	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.	4.7	13
89	Auxeticity of Concentric Auxetic-Conventional Foam Rods with High Modulus Interface Adhesive. Materials, 2018, 11, 223.	2.9	13
90	Experimental and numerical investigation of novel Savonius wind turbine. Wind Engineering, 2019, 43, 247-262.	1.9	13

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91	An Auxetic System Based on Interconnected Y-Elements Inspired by Islamic Geometric Patterns. Symmetry, 2021, 13, 865.	2.2	13
92	Material structure for attaining pure Poisson-shearing. Journal of Materials Science Letters, 2002, 21, 1595-1597.	0.5	12
93	A Note on Mathematical Relationships Among Bond-Torsion Force Fields. Journal of Mathematical Chemistry, 2002, 31, 421-428.	1.5	12
94	Exact Non-Linear Relationship Between Exponential-6 and Lennard-Jones (12-6) Potential Functions. Journal of Mathematical Chemistry, 2003, 34, 221-225.	1.5	12
95	Auxetic Plates on Auxetic Foundation. Advanced Materials Research, 0, 974, 398-401.	0.3	12
96	An Anisotropic Auxetic 2D Metamaterial Based on Sliding Microstructural Mechanism. Materials, 2019, 12, 429.	2.9	12
97	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
98	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
99	Relationship Between Morse and Murrell-Mottram Potentials at Long Range. Journal of Mathematical Chemistry, 2004, 36, 139-145.	1.5	11
100	Long range relationship between Morse and Lennardâ€“Jones potential energy functions. Molecular Physics, 2007, 105, 1013-1018.	1.7	11
101	AUTOMATED IDENTIFICATION OF EPILEPTIC AND ALCOHOLIC EEG SIGNALS USING RECURRENCE QUANTIFICATION ANALYSIS. Journal of Mechanics in Medicine and Biology, 2012, 12, 1240028.	0.7	11
102	COMPREHENSIVE ANALYSIS OF NORMAL AND DIABETIC HEART RATE SIGNALS: A REVIEW. Journal of Mechanics in Medicine and Biology, 2012, 12, 1240033.	0.7	11
103	A Systems Approach to Cardiac Health Diagnosis. Journal of Medical Imaging and Health Informatics, 2013, 3, 261-267.	0.3	11
104	Performance Assessment of Darrieus Turbine with Modified Trailing Edge Airfoil for Low Wind Speeds. Smart Grid and Renewable Energy, 2017, 08, 425-439.	1.1	11
105	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.	3.7	10
106	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.	1.1	10
107	Longitudinal wave motion in width-constrained auxetic plates. Smart Materials and Structures, 2016, 25, 054008.	3.5	10
108	Computational Optimization of Adaptive Hybrid Darrieus Turbine: Part 1. Fluids, 2019, 4, 90.	1.7	10

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109	Longitudinal wave speed in auxetic plates with elastic constraint in width direction. Archive of Applied Mechanics, 2019, 89, 659-668.	2.2	10
110	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.	1.5	9
111	Alternative scaling factor between Lennard-Jones and Exponential-6 potential energy functions. Molecular Simulation, 2007, 33, 1029-1032.	2.0	9
112	Refined shear correction factor for very thick simply supported and uniformly loaded isosceles right triangular auxetic plates. Smart Materials and Structures, 2016, 25, 054001.	3.5	9
113	Shear Deformation in a Class of Thick Hexagonal Plates. Physica Status Solidi (B): Basic Research, 2017, 254, 1700014.	1.5	9
114	Polynomial Forms of Typical Interatomic Potential Functions. Journal of Mathematical Chemistry, 2005, 38, 495-501.	1.5	8
115	Correlation among parameters of the extended-Rydberg potential energy function. Journal of Mathematical Chemistry, 2005, 38, 195-201.	1.5	8
116	Modification of Morse potential in conventional force fields for applying FPDP parameters. Journal of Mathematical Chemistry, 2010, 47, 984-989.	1.5	8
117	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.	1.8	8
118	Application of extended-Rydberg parameters in general Morse potential functions. Journal of Mathematical Chemistry, 2011, 49, 1086-1091.	1.5	8
119	Spherical Auxetic Shells. Advanced Materials Research, 2013, 804, 146-150.	0.3	8
120	Wind Tunnel Validation of Double Multiple Streamtube Model for Vertical Axis Wind Turbine. Smart Grid and Renewable Energy, 2017, 08, 412-424.	1.1	8
121	Strain field of deep drawn knitted fabric reinforced thermoplastic composite sheets. Journal of Materials Processing Technology, 2000, 97, 95-99.	6.3	7
122	A three-level hierarchical approach in modeling sheet thermoforming of knitted-fabric composites. International Journal of Mechanical Sciences, 2003, 45, 1097-1117.	6.7	7
123	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.	1.8	7
124	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.	1.1	7
125	Elastic stability analysis of auxetic columns using thirdâ€order shear deformation theory. Physica Status Solidi (B): Basic Research, 2015, 252, 1575-1579.	1.5	7
126	An Accurate Design Equation for the Maximum Deflection in a Class of Auxetic Sectorial Plates. Physica Status Solidi (B): Basic Research, 2017, 254, 1600784.	1.5	7

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127	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.	2.5	7
128	Computer-Based Identification of Diabetic Maculopathy Stages Using Fundus Images. , 2011, , 377-399.		7
129	Elastic Stiffness of Three-Phase Composites by the Generalized Mechanics-of-Materials (GMM) Approach. Journal of Thermoplastic Composite Materials, 2002, 15, 155-167.	4.2	6
130	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.	3.1	6
131	Size-dependency of nano-scale inclusions. Journal of Materials Science, 2005, 40, 3841-3842.	3.7	6
132	Application of Kihara parameters in conventional molecular force fields. Journal of Mathematical Chemistry, 2010, 48, 363-369.	1.5	6
133	Preliminary assessment of a multifunctional potential energy function. Molecular Physics, 2010, 108, 1589-1597.	1.7	6
134	On the self starting of darrieus turbine : An experimental investigation with secondary rotor. , 2017, , .		6
135	Longitudinal wave speed in cylindrical auxetic rods with elastic constraint in radial direction. European Journal of Mechanics, A/Solids, 2019, 75, 443-449.	3.7	6
136	Deep Drawing Simulation of Knitted Fabric Composites Considering Geometrical Non-Linearity. Science and Engineering of Composite Materials, 1999, 8, 113-122.	1.4	5
137	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.	2.4	5
138	Analytical modelling for sheet thermoforming of knitted fabric reinforced PMC. Journal of Materials Science, 2002, 37, 871-877.	3.7	5
139	Spring Constant Analogy for Estimating Stiffness of a Single Polyethylene Molecule. Journal of Mathematical Chemistry, 2003, 34, 151-161.	1.5	5
140	Calculation of Rydberg potential energy curve from Murrellâ€“Sorbie parameters. Molecular Physics, 2008, 106, 753-758.	1.7	5
141	Obtaining the Varshni potential function using the 2-body Kaxiras-Pandey parameters. Journal of the Serbian Chemical Society, 2009, 74, 1423-1428.	0.8	5
142	Size-Dependency Consideration of Montmorillonite-Reinforced Nylon-6 Via Interfacial Stiffness. Journal of Thermoplastic Composite Materials, 2011, 24, 601-611.	4.2	5
143	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.	0.3	5
144	Stress Concentration Factors in Auxetic Rods and Plates. Applied Mechanics and Materials, 0, 394, 134-139.	0.2	5

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145	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
146	Maximum Stresses in Rectangular Auxetic Membranes. Physica Status Solidi (B): Basic Research, 2020, 257, 2000300.	1.5	5
147	Two-body relationship between the Pearson-Takai-Halicioglu-Tiller and the Biswas-Hamann potential functions. Brazilian Journal of Physics, 2005, 35, 641-644.	1.4	5
148	Relationship and discrepancies between the Extended-Rydberg and the Generalized Buckingham potential energy functions. Journal of the Serbian Chemical Society, 2007, 72, 159-164.	0.8	5
149	Kinematical studies on rotation-based semi-auxetics. Journal of Materials Science, 2007, 42, 7690-7695.	3.7	4
150	Application of Extended-Rydberg Parameters for Extracting the 2-Body Portion of Kaxirasâ€“Pandey Function. Journal of Mathematical Chemistry, 2007, 41, 135-142.	1.5	4
151	Obtaining the Morse parameter for large bond-stretching using Murrell-Sorbie parameters. Journal of Molecular Modeling, 2008, 14, 103-108.	1.8	4
152	Rotating Disks Made from Materials with Negative Poisson's Ratio. Advanced Materials Research, 0, 804, 347-352.	0.3	4
153	Plane Waves of Dilatation in Auxetic Bulk Solids. Materials Science Forum, 2016, 866, 206-210.	0.3	4
154	On the Mathematical Modelling of Adaptive Darrieus Wind Turbine. Journal of Power and Energy Engineering, 2017, 05, 133-158.	0.6	4
155	Sheet forming simulation of knitted fabric composites considering fabric reorientation. Mechanics Research Communications, 1999, 26, 209-215.	1.8	3
156	Simultaneous stretch forming and deep drawing in axisymmetrical sheet forming. Journal of Materials Processing Technology, 2000, 97, 82-87.	6.3	3
157	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.	3.1	3
158	On the Applicability of Mathematical Constants and Sequences in Intermolecular Potential Energy Functions. Journal of Mathematical Chemistry, 2007, 41, 381-391.	1.5	3
159	Improved long range relationship between parameters of the Morse and Rydberg potential functions. Journal of Mathematical Chemistry, 2008, 43, 1573-1577.	1.5	3
160	Relations between Varshni and Morse potential energy parameters. Open Physics, 2009, 7, .	1.7	3
161	ANALYSIS OF AUXETIC BEAMS AS RESONANT FREQUENCY BIOSENSORS. Journal of Mechanics in Medicine and Biology, 2012, 12, 1240027.	0.7	3
162	<I>A Special Section on</I> Healthcare Informatics (Part III). Journal of Medical Imaging and Health Informatics, 2013, 3, 566-567.	0.3	3

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163	<I>A Special Section on</I> Healthcare Informatics. Journal of Medical Imaging and Health Informatics, 2013, 3, 268-269.	0.3	3
164	Revisiting the elasticity solution for a simply supported beam under sinusoidal load. International Journal of Mechanical Engineering Education, 2018, 46, 41-49.	1.0	3
165	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.	1.0	3
166	Auxetic Microstructures. Engineering Materials, 2020, , 9-51.	0.6	3
167	A convenient and accurate wide-range parameter relationship between Buckingham and Morse potential energy functions. Molecular Physics, 2018, 116, 1127-1132.	1.7	3
168	Review of Data Mining Methodologies for Healthcare Applications. Journal of Medical Imaging and Health Informatics, 2013, 3, 288-293.	0.3	3
169	Metamaterial with sign-toggling thermal expansivity inspired by Islamic motifs in Spain. Journal of Science: Advanced Materials and Devices, 2022, 7, 100401.	3.1	3
170	Sheet forming kinematics of curved-textile composites by the mapping scheme. Mechanics Research Communications, 2000, 27, 29-36.	1.8	2
171	Elastic Properties of a Polyethylene Single-Molecule. Journal of Mathematical Chemistry, 2003, 34, 215-220.	1.5	2
172	Next-Generation Applications for Polymeric Nanofibres. , 2005, , 137-147.		2
173	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.	1.5	2
174	Combination of pi and Golden Ratio in Lennardâ€“Jones-Type and Morse-Type Potential Energy Functions. Journal of Mathematical Chemistry, 2007, 42, 93-101.	1.5	2
175	Extraction of Dunham Coefficients from Murrell-Sorbie Parameters. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2008, 63, 1-6.	1.5	2
176	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
177	Split series potential energy function. Journal of Mathematical Chemistry, 2011, 49, 1180-1191.	1.5	2
178	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.	1.5	2
179	Review of Data Mining Methods with Applications for Rehabilitation Engineering, Human Factors, and Diagnostics. , 2012, , 447-460.		2
180	Potential energy function based on the narcissus constant, its square and its cube. Journal of Mathematical Chemistry, 2008, 43, 304-313.	1.5	1

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181	Connection between the Ogilvie and the Murrellâ€“Sorbie potential energy functions. Journal of Mathematical Chemistry, 2008, 43, 1345-1354.	1.5	1
182	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
183	Approximation of the Dymond-Rigby-Smith potential function using the Lennard-Jones form. Journal of Mathematical Chemistry, 2009, 46, 569-575.	1.5	1
184	Geometrical Correction to the Elastic Stiffness of Particulate Composites. Journal of Reinforced Plastics and Composites, 2010, 29, 94-104.	3.1	1
185	<I>A Special Section on</I> Healthcare Informatics. Journal of Medical Imaging and Health Informatics, 2013, 3, 393-394.	0.3	1
186	Effect of nodule shape for modeling of auxetic microporous polymers. MATEC Web of Conferences, 2015, 34, 01002.	0.2	1
187	Wave Propagation in Auxetic Solids. Engineering Materials, 2015, , 367-383.	0.6	1
188	Micromechanical Models for Auxetic Materials. Engineering Materials, 2015, , 45-105.	0.6	1
189	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.	0.6	1
190	Simplified Design Equations for a Class of Rhombic Auxetic Plates. MATEC Web of Conferences, 2018, 206, 01009.	0.2	1
191	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
192	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
193	Auxetic Composites with Mixed Auxeticity. Engineering Materials, 2020, , 237-272.	0.6	1
194	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
195	92.12 Two infinite nested radical constants. Mathematical Gazette, 2008, 92, 96-97.	0.0	0
196	Coefficient interrelatedness among polynomial potential functions of diatomic molecules. Journal of Mathematical Chemistry, 2009, 45, 953-961.	1.5	0
197	Correction Factors for the Analytical Transverse Stiffness of Unidirectional Fiber Composites. Journal of Thermoplastic Composite Materials, 2010, 23, 389-399.	4.2	0
198	Modeling and Simulation of Polymeric Nanocomposite Processing. Advanced Structured Materials, 2011, , 119-134.	0.5	0

#	Article	IF	Citations
199	A power series potential energy function with adjustable index. Journal of Mathematical Chemistry, 2012, 50, 1091-1099.	1.5	0
200	Simple Semi-auxetic Solids. Engineering Materials, 2015, , 475-532.	0.6	0
201	Wave Transmission and Reflection Involving Auxetic Solids. Engineering Materials, 2015, , 385-404.	0.6	0
202	Vibration of Auxetic Solids. Engineering Materials, 2015, , 345-365.	0.6	0
203	Auxetic Beams. Engineering Materials, 2015, , 201-215.	0.6	0
204	Elasticity of Auxetic Solids. Engineering Materials, 2015, , 107-145.	0.6	0
205	Sensing Materials: Composites and Hybrid Materials. , 2021, , .		0
206	SIMULTANEOUS DEEP DRAWING AND STRETCH FORMING OF KNITTED FABRIC COMPOSITE SHEET. Zairyo/Journal of the Society of Materials Science, Japan, 1999, 48, 57-61.	0.2	0
207	Negative Compressibility. Engineering Materials, 2020, , 427-463.	0.6	0
208	Auxetic Composites with Enhanced Moduli. Engineering Materials, 2020, , 273-322.	0.6	0
209	Elasticity of Auxetic Beams. Engineering Materials, 2020, , 219-236.	0.6	0
210	Negative Thermal Expansion. Engineering Materials, 2020, , 351-426.	0.6	0
211	Thin Auxetic Plates. Engineering Materials, 2020, , 75-107.	0.6	0
212	Analogies Across Auxetic Models. Engineering Materials, 2020, , 53-74.	0.6	0
213	Metamaterials and Islamic Geometric Patterns. Engineering Materials, 2020, , 655-693.	0.6	0
214	Sign-Switching of Metamaterial Properties. Engineering Materials, 2020, , 523-527.	0.6	0
215	Negative Moisture Expansion, Negative Hygrothermal Expansion, and Negative Environmental Expansion. Engineering Materials, 2020, , 465-507.	0.6	0
216	Auxetic Membranes. Engineering Materials, 2020, , 323-350.	0.6	0

#	Article	IF	Citations
217	Sign-Switching of Poissonâ€™s Ratio with Temperature Change Reversals. Engineering Materials, 2020, , 591-630.	0.6	0
218	Influence of Doubly Periodic Array Aspect Ratio on the Transverse Anisotropy of Continuous Unidirectional Fiber Reinforced Composites. Journal of Reinforced Plastics and Composites, 2001, 20, 482-494.	3.1	0