# Shyang Chang

List of Publications by Year
in descending order

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|---|---|---|---|
| 48 papers | 818 citations | 430874<br>18 h-index | 526287<br>27 g-index |
| 48 all docs | 48 docs citations | 48 times ranked | 563 citing authors |

| # | ARTICLE | IF | CITATIONS |
|---|---------|-----|-----------|
| 1 | Dimension estimation of discrete-time fractional Brownian motion with applications to image texture classification. IEEE Transactions on Image Processing, 1997, 6, 1176-1184. | 9.8 | 128 |
| 2 | Statistical change detection with moments under time-varying illumination. IEEE Transactions on Image Processing, 1998, 7, 1258-1268. | 9.8 | 83 |
| 3 | An adaptive learning algorithm for principal component analysis. IEEE Transactions on Neural Networks, 1995, 6, 1255-1263. | 4.2 | 50 |
| 4 | The meridian system and mechanism of acupuncture—A comparative review. Part 1: The meridian system. Taiwanese Journal of Obstetrics and Gynecology, 2012, 51, 506-514. | 1.3 | 46 |
| 5 | A video tracking system with adaptive predictors. Pattern Recognition, 1992, 25, 1171-1180. | 8.1 | 38 |
| 6 | Studies of detrusor-sphincter synergia and dyssynergia during micturition in rats via fractional Brownian motion. IEEE Transactions on Biomedical Engineering, 2000, 47, 1066-1073. | 4.2 | 37 |
| 7 | A fast estimation algorithm on the Hurst parameter of discrete-time fractional Brownian motion. IEEE Transactions on Signal Processing, 2002, 50, 554-559. | 5.3 | 31 |
| 8 | On the "Brown-Ring" Reaction Product via Density-Functional Theory. Journal of Physical Chemistry A, 2004, 108, 358-361. | 2.5 | 28 |
| 9 | The meridian system and mechanism of acupuncture—A comparative review. Part 2: Mechanism of acupuncture analgesia. Taiwanese Journal of Obstetrics and Gynecology, 2013, 52, 14-24. | 1.3 | 27 |
| 10 | Dynamical cryptography based on synchronised chaotic systems. Electronics Letters, 1999, 35, 974. | 1.0 | 24 |
| 11 | Fractal dynamics and synchronization of rhythms in urodynamics of female Wistar rats. Journal of Neuroscience Methods, 2004, 139, 271-279. | 2.5 | 24 |
| 12 | Fractal Dimension Estimation Via Spectral Distribution Function and Its Application to Physiological Signals. IEEE Transactions on Biomedical Engineering, 2007, 54, 1895-1898. | 4.2 | 24 |
| 13 | The meridian system and mechanism of acupuncture: A comparative review. Part 3: Mechanisms of acupuncture therapies. Taiwanese Journal of Obstetrics and Gynecology, 2013, 52, 171-184. | 1.3 | 23 |
| 14 | The Mechanism Of Auriculotherapy: A Case Report Based On The Fractal Structure Of Meridian System. Tropical Journal of Obstetrics and Gynaecology, 2014, 11, 30. | 0.3 | 23 |
| 15 | Regulating the Balance of Th17/Treg via Electroacupuncture and Moxibustion: An Ulcerative Colitis Mice Model Based Study. Evidence-based Complementary and Alternative Medicine, 2017, 2017, 1-13. | 1.2 | 23 |
| 16 | Effects of Acupuncture at Neiguan (PC 6) on Electroencephalogram. Chinese Journal of Physiology, 2009, 52, 1-7. | 1.0 | 23 |
| 17 | Physiological Rhythms, Dynamical Diseases and Acupuncture. Chinese Journal of Physiology, 2010, 53, 77-90. | 1.0 | 21 |
| 18 | Synergic Co-activation in Forearm Pronation. Annals of Biomedical Engineering, 2008, 36, 2002-2018. | 2.5 | 18 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|-----|-----------|
| 19 | Zero waiting-cycle hierarchical block matching algorithm and its array architectures. IEEE Transactions on Circuits and Systems for Video Technology, 1994, 4, 18-28. | 8.3 | 17 |
| 20 | Effects of acupuncture at Neiguan (PC 6) of the pericardial meridian on blood pressure and heart rate variability. Chinese Journal of Physiology, 2008, 51, 167-77. | 1.0 | 16 |
| 21 | A motion estimation algorithm under time-varying illumination. Pattern Recognition Letters, 1989, 10, 195-199. | 4.2 | 11 |
| 22 | Revealing Potential Biomarkers of Functional Dyspepsia by Combining 1H NMR Metabonomics Techniques and an Integrative Multi-objective Optimization Method. Scientific Reports, 2016, 6, 18852. | 3.3 | 11 |
| 23 | Estimation of 3-D translational motion parameters via hadamard transform. Pattern Recognition Letters, 1988, 8, 341-345. | 4.2 | 9 |
| 24 | Calculation of moment invariants via hadamard transform. Pattern Recognition, 1993, 26, 287-294. | 8.1 | 9 |
| 25 | The Cooperative Phenomenon of Autonomic Nervous System in Urine Storage for Wistar Rats. Chinese Journal of Physiology, 2009, 52, 14-22. | 1.0 | 9 |
| 26 | An adaptive conscientious competitive learning algorithm and its applications. Pattern Recognition, 1994, 27, 1787-1813. | 8.1 | 7 |
| 27 | The Rationale behind a Reticular Meridain Model for Chinese Acupuncture. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , . | 0.0 | 7 |
| 28 | Fractional Brownian Motion in Biomedical Signal Processing, Physiology, and Modern Physics. , 2011, , . | | 7 |
| 29 | Synergic co-activation of muscles in elbow flexion via fractional Brownian motion. Chinese Journal of Physiology, 2008, 51, 376-86. | 1.0 | 7 |
| 30 | Dynamic data encryption system based on synchronised chaotic systems. Electronics Letters, 1999, 35, 271. | 1.0 | 5 |
| 31 | Study of the $[Cr(H_2O)_5NO]^{2+}$ Complex via Density Functional Theory. Journal of the Chinese Chemical Society, 2005, 52, 415-420. | 1.4 | 5 |
| 32 | On the [Fe(H2O)5XO]2+ (XC, N, O) complex ions via density functional theory. Computational and Theoretical Chemistry, 2005, 724, 209-214. | 1.5 | 4 |
| 33 | Studies of the [Cr(CN)5NO]3â˘ and [Cr(NH3)5NO]2+ complex ions via density functional theory. Computational and Theoretical Chemistry, 2006, 776, 77-82. | 1.5 | 3 |
| 34 | Notice of Retraction: Dynamical System Perspective on the Theoretical Foundation of Traditional Chinese Medicine. , 2011, , . | | 3 |
| 35 | Effect of Auriculotherapy on the Plasma Concentration of Biomarkers in Individuals with Knee Osteoarthritis. JAMS Journal of Acupuncture and Meridian Studies, 2018, 11, 145-152. | 0.7 | 3 |
| 36 | Learning algorithms and applications of principal component analysis. Neural Network Systems Techniques and Applications, 1998, , 321-352. | 0.0 | 3 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 37 | Chattering alleviation of variable structure control for a certain class of nonlinear systems. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A/Chung-kuo Kung Ch'eng Hsuch K'an, 1988, 11, 573-579. | 1.1 | 2 |
| 38 | Density functional theory of the iron-nitrosyl (S = 3/2) complex. International Journal of Quantum Chemistry, 2005, 105, 511-517. | 2.0 | 2 |
| 39 | Fractional Brownian Motion and Its Increments as Undulatory Models. , 2011, , . | | 2 |
| 40 | The cooperative phenomenon of autonomic nervous system in urine storage for Wistar rats. Chinese Journal of Physiology, 2009, 52, 72-80. | 1.0 | 2 |
| 41 | A new architecture for motion-compensated image coding. Pattern Recognition, 1992, 25, 357-366. | 8.1 | 1 |
| 42 | A minimum discrepancy estimator in parameter estimation. IEEE Transactions on Information Theory, 1998, 44, 2930-2942. | 2.4 | 1 |
| 43 | Symptoms of long-term exposure to moxa smoke in acupuncturists: a correlation analysis. Journal of Traditional Chinese Medicine, 2018, 38, 132-138. | 0.2 | 1 |
| 44 | Variable structure control of multivariable affine system. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A/Chung-kuo Kung Ch'eng Hsuch K'an, 1993, 16, 307-321. | 1.1 | 0 |
| 45 | THE ENTROPY OF DISCRETE-TIME FRACTIONAL GAUSSIAN NOISE AND ITS APPLICATION TO THE ELECTROMYOGRAM OF EXTERNAL URETHRAL SPHINCTER SIGNALS. Biomedical Engineering - Applications, Basis and Communications, 2001, 13, 256-261. | 0.6 | 0 |
| 46 | Bifurcation Analysis of the Trans â†" Cis Rotation of Monorotor Molecules. Journal of the Chinese Chemical Society, 2003, 50, 557-563. | 1.4 | 0 |
| 47 | On the â€œBrown-Ringâ€•Reaction Product via Density-Functional Theory.. ChemInform, 2004, 35, no. | 0.0 | 0 |
| 48 | Dynamic performance evaluation on the synergy of micturition in spinal cord-injured female rats under pharmacological effects. Chinese Journal of Physiology, 2009, 52, 81-92. | 1.0 | 0 |