Cheng Yee Low

List of Publications by Year
in descending order

65 papers	426 citations	759233 12 h-index	888059 17 g-index
66 all docs	66 docs citations	66 times ranked	391 citing authors

#	ARTICLE	IF	CITATIONS
1	Classification of Electroencephalogram Data from Hand Grasp and Release Movements for BCI Controlled Prosthesis. Procedia Technology, 2016, 26, 374-381.	1.1	39
2	Numerical and experimental investigations of splat geometric characteristics during oblique impact of plasma spraying. Applied Surface Science, 2011, 257, 10363-10372.	6.1	26
3	Development of foolproof catheter guide system based on mechatronic design. Production Engineering, 2013, 7, 81-90.	2.3	25
4	Design and Development of a Multifingered Prosthetic Hand. International Journal of Social Robotics, 2012, 4, 59-66.	4.6	21
5	User-Friendly LabVIEW GUI for Prosthetic Hand Control Using Emotiv EEG Headset. Procedia Computer Science, 2017, 105, 276-281.	2.0	20
6	A Review of Non-Invasive Haptic Feedback stimulation Techniques for Upper Extremity Prostheses. International Journal of Integrated Engineering, 2019, 11, .	0.4	19
7	A Review of Force Control Techniques in Friction Stir Process. Procedia Computer Science, 2015, 76, 528-533.	2.0	17
8	Design of Upper Limb Patient Simulator. Procedia Engineering, 2012, 41, 1374-1378.	1.2	16
9	Wireless e-Nose Sensor Node: State of the Art. Procedia Engineering, 2012, 41, 1405-1411.	1.2	15
10	Hybrid-Actuated Finger Prosthesis with Tactile Sensing. International Journal of Advanced Robotic Systems, 2013, 10, 351.	2.1	15
11	System Integration and Control of Finger Orthosis for Post Stroke Rehabilitation. Procedia Technology, 2014, 15, 755-764.	1.1	15
12	Shape Memory Alloys as Linear Drives in Robot Hand Actuation. Procedia Computer Science, 2015, 76, 168-173.	2.0	13
13	Adaptive Controller Algorithm for 2-DOF Humanoid Robot Arm. Procedia Technology, 2014, 15, 765-774.	1.1	12
14	Terrain Classification for Track-driven Agricultural Robots. Procedia Technology, 2014, 15, 775-782.	1.1	12
15	Specifying the Principle Solution in Mechatronic Development Enterprises. , 2008, , .		10
16	Structure-property Relationship of Bio-Inspired Fibrous Materials. Procedia Computer Science, 2015, 76, 411-416.	2.0	10
17	Fracture behavior of multilayer fibrous scaffolds featuring microstructural gradients. Materials and Design, 2019, 184, 108184.	7.0	9
18	Scavenging Energy from Human Activities Using Piezoelectric Material. Procedia Technology, 2014, 15, 827-831.	1.1	8

#	Article	IF	Citations
19	Framework for the agile development of innovative Product-Service-Systems for existing physical rehabilitation systems. Procedia Manufacturing, 2018, 24, 147-152.	1.9	8
20	Gamification and Control of Nitinol Based Ankle Rehabilitation Robot. Biomimetics, 2021, 6, 53.	3.3	8
21	Spasticity mathematical modelling in compliance with modified ashworth scale and modified tardieu scales. , 2015, , .		7
22	Evaluation of Upper Limb Spasticity towards the Development of a High Fidelity Part-task Trainer. Procedia Technology, 2014, 15, 817-826.	1.1	6
23	MODEL-BASED SYSTEMS ENGINEERING OF A HAND REHABILITATION DEVICE. Jurnal Teknologi (Sciences and) Tj ETQq1 1 0.784314 rgB1	0.4	5
24	Architecting centralized coordination of soccer robots based on principle solution. Advanced Robotics, 2015, 29, 989-1004.	1.8	5
25	Supporting clinical evaluation of upper limb spasticity with quantitative data measurement in accordance to the Modified Ashworth Scale. , 2016, , .		5
26	Developing interactive and simple electromyogram PONG game for foot dorsiflexion and plantarflexion rehabilitation exercise. , 2017, 2017, 275-278.		5
27	Conception of Logistics Management System for Smart Factory. International Journal of Engineering and Technology(UAE), 2018, 7, 126.	0.3	5
28	Biotensegrity Inspired Robotâ€"Future Construction Alternative. Procedia Engineering, 2012, 41, 1079-1084.	1.2	4
29	Emulation of Spasticity Symptoms in Upper Limb Part-Task Trainer for Physiotherapist Education. Applied Mechanics and Materials, 2013, 393, 999-1004.	0.2	4
30	Emulation of muscle tone of upper limb spasticity and rigidity. , 2013, , .		4
31	Emulating Upper Limb Disorder for Therapy Education. International Journal of Advanced Robotic Systems, 2014, 11, 183.	2.1	4
32	Finite Element Analysis of Stress-Strain Response at the Tool Pin During Friction Stir Process. Procedia Computer Science, 2015, 76, 522-527.	2.0	4
33	Design and development of platform ankle rehabilitation robot with Shape Memory Alloy based actuator. , 2017, 2017, 946-949.		4
34	Steering Behavior of a Track-Driven Paintball Robot. Procedia Engineering, 2012, 41, 1516-1523.	1.2	3
35	Strategy planning for collaborative humanoid soccer robots based on principle solution. Production Engineering, 2013, 7, 23-34.	2.3	3
36	Hand rehabilitation device system (HRDS) for therapeutic applications. , 2014, , .		3

#	Article	IF	Citations
37	TOWARDS THE DEVELOPMENT OF A ELECTRO-ENCEPHALOGRAPHY BASED NEUROPROSTHETIC TERMINAL DEVICE. Jurnal Teknologi (Sciences and Engineering), 2015, 76, .	0.4	3
38	SMA Actuated Finger Exoskeleton Device for Rehabilitation of Acute Paresis Patient. Applied Mechanics and Materials, 0, 773-774, 883-887.	0.2	3
39	Comparison of EEG Data Classification between Conventional Visual Cue-Marker and EMG-Based Marker on Brain Activity. Procedia Manufacturing, 2018, 24, 66-73.	1.9	3
40	A Hybrid Haptic Feedback Stimulation Device to Recover the Missing Sensation of the Upper Limb Amputees. IOP Conference Series: Materials Science and Engineering, 2020, 834, 012013.	0.6	3
41	Strategy Model for Multi-Robot Coordination in Robotic Soccer. Applied Mechanics and Materials, 2013, 393, 592-597.	0.2	2
42	System Integration of an Upper Limb Disorder Part-Task Trainer with PC-based Control. Procedia Computer Science, 2017, 105, 328-332.	2.0	2
43	System-level design of a cloud-based training device for upper limb spasticity rehabilitation. , 2017, , .		2
44	Specification of principle solution for a smart factory exemplified by active structure. , 2017, , .		2
45	Systematic Development of Smart Factory using CONSENS. Procedia Manufacturing, 2018, 24, 278-283.	1.9	2
46	Systematic Development of Machine for Abnormal Muscle Activity Detection. , 2021, , .		2
47	TOWARDS A CLINICALLY COMPLIANT UPPER LIMB PART-TASK TRAINER IN SIMULATED LEARNING PROGRAM. Jurnal Teknologi (Sciences and Engineering), 2015, 76, .	0.4	2
48	Synergistic Impacts of Domain-Spanning Conceptual Design on Control of Self-Optimizing Systems. , 2007, , .		1
49	Mechatronic Design for a Fail-Safe Catheter Guide System. , 2010, , .		1
50	Principle Solution for Designing Collaborative Humanoid Soccer Robots. Procedia Engineering, 2012, 41, 1507-1515.	1.2	1
51	SIMULATION ANALYSIS OF PEAK TEMPERATURE IN WELD ZONES DURING FRICTION STIR PROCESS. Jurnal Teknologi (Sciences and Engineering), 2015, 76, .	0.4	1
52	Mobile Robot Path Planning using Q-Learning with Guided Distance. International Journal of Engineering and Technology(UAE), 2018, 7, 57.	0.3	1
53	LabVIEW GUI for Emotiv EPOC of Prosthetic Hand Control. International Journal of Electrical and Electronic Engineering and Telecommunications, 2018, , 190-194.	3.6	1
54	Data Science Platform for Smart Diagnosis of Upper Limb Spasticity. Procedia Manufacturing, 2020, 52, 250-257.	1.9	1

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55	Towards Biomimetic Actuation in Prostheses Using Shape Memory Alloy. Applied Mechanics and Materials, 2013, 315, 960-964.	0.2	0
56	Stair Climbing of a Track-Driven Mobile Robot with Flipper Arm. Applied Mechanics and Materials, 2013, 393, 586-591.	0.2	0
57	Identification of Reusable Controller Strategies for the System Design of Advanced Mechatronic Systems. Applied Mechanics and Materials, 0, 393, 579-585.	0.2	0
58	Patient-Driven Hand Exoskeleton Based Robotic with Active Control System for Early Post Stroke Rehabilitation. Applied Mechanics and Materials, 0, 799-800, 1063-1068.	0.2	0
59	SYSTEM INTEGRATION OF A FRICTION STIR WELDING MACHINE WITH A CUSTOMIZED TRAVERSE CONTROLLED TABLE. Jurnal Teknologi (Sciences and Engineering), 2015, 76, .	0.4	0
60	VALUE-DRIVEN DESIGN OF A HIGH FIDELITY PART-TASK TRAINER FOR UPPER LIMB DISORDERS. Jurnal Teknologi (Sciences and Engineering), 2015, 76, .	0.4	0
61	Dataset on microstructural characteristics and mechanical performance of homogeneous and functionally graded fibrous scaffolds. Data in Brief, 2019, 27, 104718.	1.0	0
62	Experimental Analysis of Ankle Foot Orthosis Using Pneumatic Artificial Muscle. IFMBE Proceedings, 2021, , 118-125.	0.3	0
63	MEASUREMENT OF QUANTUM TUNNELING COMPOSITE RESISTIVITY CHARACTERISTICS FOR TACTILE SENSING APPLICATIONS. Jurnal Teknologi (Sciences and Engineering), 2015, 76, .	0.4	0
64	Design an Interfacing Tracking System in Rehabilitation Therapies Between The Elbow Joint of The Human Arm and The Prosthetic Arm. International Journal of Integrated Engineering, 2020, 12, .	0.4	0
65	Elucidating factors influencing machine learning algorithm prediction in spasticity assessment: a prospective observational study. Computer Methods in Biomechanics and Biomedical Engineering, 2022, 25, 971-984.	1.6	0