

# Kuo-Hsiung Tseng

## List of Publications by Year in descending order

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81  
papers

851  
citations

623734

14  
h-index

526287

27  
g-index

81  
all docs

81  
docs citations

81  
times ranked

864  
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparing Cuprous Iodide Nanocolloid by the Electrical Spark Discharge Method. Journal of Cluster Science, 2022, 33, 2069-2075.	3.3	1
2	Characteristic of LED lighting the nanosilver colloid fabricated by electrical spark discharge method. Journal of Physics and Chemistry of Solids, 2022, 165, 110648.	4.0	0
3	Parameter configuration of the electrical spark discharge method for preparing graphene copper nanocomposite colloids and the analysis of product characteristics. RSC Advances, 2022, 12, 12978-12982.	3.6	0
4	Implementation of Micro-EDM Monitoring System to Fabricate Antimicrobial Nanosilver Colloid. Micromachines, 2022, 13, 790.	2.9	1
5	Parameters and properties for the preparation of Cu nanocolloids containing polyvinyl alcohol using the electrical spark discharge method. Nanomaterials and Nanotechnology, 2021, 11, 184798042110351.	3.0	4
6	Characteristics of Nano-metal Colloid Prepared by Electrical Spark Discharge Method. Current Nanoscience, 2021, 16, 890-911.	1.2	4
7	A Study of Nanosilver Colloid Prepared by Electrical Spark Discharge Method and Its Antifungal Control Benefits. Micromachines, 2021, 12, 503.	2.9	1
8	Implementation of a micro-electrical discharge machining system to fabricate TiO <sub>2</sub> nanocolloid. Mechatronics, 2021, 79, 102649.	3.3	5
9	Green Smart Campus Monitoring and Detection Using LoRa. Sensors, 2021, 21, 6582.	3.8	12
10	A study of preparing silver iodide nanocolloid by electrical spark discharge method and its properties. Scientific Reports, 2021, 11, 20457.	3.3	2
11	Fabrication of nano-bismuth colloids in deionized water using an electrical discharge machine. Nanotechnology, 2020, 31, 425704.	2.6	5
12	Parameter control and property analysis in the preparation of platinum iodide nanocolloids through the electrical spark discharge method. RSC Advances, 2020, 10, 30169-30175.	3.6	5
13	Development of Proportional-Integrative-Derivative (PID) Optimized for the MicroElectric Discharge Machine Fabrication of Nano-Bismuth Colloid. Micromachines, 2020, 11, 1065.	2.9	5
14	A Study of a PID Controller Used in a Micro-Electrical Discharge Machining System to Prepare TiO <sub>2</sub> Nanocolloids. Nanomaterials, 2020, 10, 1044.	4.1	3
15	Deriving Optimized PID Parameters of Nano-Ag Colloid Prepared by Electrical Spark Discharge Method. Nanomaterials, 2020, 10, 1091.	4.1	5
16	Novel Preparation of Reduced Graphene Oxide-Silver Complex using an Electrical Spark Discharge Method. Nanomaterials, 2019, 9, 979.	4.1	14
17	Effect of the Sun Elevation for Fixed PV System and Single-Axis-Tracking PV System. , 2019, , .		3
18	Optimized Design and Implementation for Discharge Circuit of Micro-Electrical Discharge Machine in Preparation of Nano Silver Colloid. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
19	Fabricating Tungsten and Tungsten-Trioxide Nanocomposite Colloid in Deionized Water by Electric Spark Discharge Method. <i>Journal of Cluster Science</i> , 2019, 30, 477-482.	3.3	1
20	Parameter control and concentration analysis of graphene colloids prepared by electric spark discharge method. <i>Nanotechnology Reviews</i> , 2019, 8, 201-209.	5.8	9
21	Submerged arc discharge for producing nanoscale graphene in deionised water. <i>Micro and Nano Letters</i> , 2018, 13, 31-34.	1.3	3
22	Comparison of graphene impregnated with/without nanosilver prepared by submerged arc discharge method. <i>Nanomaterials and Nanotechnology</i> , 2018, 8, 184798041775284.	3.0	5
23	Study on the Corresponding Relationship Between Dynamics System and System Structural Configurations—Develop a Universal Analysis Method for Eliminating the RHP-Zeros of System. <i>IEEE Transactions on Industrial Electronics</i> , 2018, 65, 5774-5784.	7.9	15
24	Antimicrobial Property of Nanosilver Colloid Prepared by Electrical Spark Discharge Method on <i>Aspergillus niger</i> . <i>Journal of Cluster Science</i> , 2018, 29, 215-224.	3.3	4
25	Relationship between Ag nanoparticles and Ag ions prepared by arc discharge method. <i>Nanotechnology Reviews</i> , 2018, 7, 1-9.	5.8	9
26	Comparison between stereoscopic structure of nano-silver colloid prepared and post-intervened with PVA through arc discharge. <i>Micro and Nano Letters</i> , 2018, 13, 747-751.	1.3	1
27	Novel electrical discharge machining system with real-time control and monitoring for preparing nanoiron colloid. <i>Advances in Mechanical Engineering</i> , 2018, 10, 168781401879170.	1.6	7
28	Application of Nano-Ag Fabricated by the Electrical Spark Discharge Method for Restraining <i>Aspergillus Niger</i> . <i>Materials Transactions</i> , 2018, 59, 1101-1105.	1.2	3
29	Preparation of Graphene Through EDM Interfered with CO <sub>2</sub> . <i>Journal of Cluster Science</i> , 2018, 29, 555-559.	3.3	3
30	Interactive Relationship between Silver Ions and Silver Nanoparticles with PVA Prepared by the Submerged Arc Discharge Method. <i>Advances in Materials Science and Engineering</i> , 2018, 2018, 1-9.	1.8	10
31	Preparation of Ag Nanoparticles in Ammonia by Using EDM and a Study of the Relationships Between Ammonia and Silver Nanoparticles. <i>Journal of Cluster Science</i> , 2018, 29, 1115-1122.	3.3	5
32	The Suspension of Platinum Nanoparticles Prepared by Electric Discharge Method in Ethanol. <i>Journal of Cluster Science</i> , 2018, 29, 679-683.	3.3	0
33	Analysis of the suspension stability of silver nanocolloids prepared by electric spark discharge method. , 2018, , .		1
34	Design and implementation of the micro-electric discharge machine to prepare nano silver colloid. , 2018, , .		0
35	Stability analysis of platinum nanoparticles prepared by ESDM in deionised water. <i>Micro and Nano Letters</i> , 2018, 13, 1545-1549.	1.3	8
36	Electromagnetic Characteristic Analysis of Circuit Breaker Actuator Using Bond Graph Method. <i>Electric Power Components and Systems</i> , 2017, 45, 647-659.	1.8	3

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37	Fabricating TiO <sub>2</sub> nanocolloids by electric spark discharge method at normal temperature and pressure. Nanotechnology, 2017, 28, 465701.	2.6	12
38	Suspension Stability of Nano-Au and Nano-Ag Colloids Prepared by Electrical Spark Discharge Method. Journal of Cluster Science, 2017, 28, 2653-2668.	3.3	9
39	Structural analysis for dynamic model of time-varying switch in bond graph – a case study of single phase switch converters. IET Power Electronics, 2017, 10, 756-766.	2.1	1
40	Parameters for Fabricating Nano-Au Colloids through the Electric Spark Discharge Method with Micro-Electrical Discharge Machining. Nanomaterials, 2017, 7, 133.	4.1	20
41	A Study of Photocatalysis of Methylene Blue of TiO <sub>2</sub> Fabricated by Electric Spark Discharge Method. Journal of Nanomaterials, 2017, 2017, 1-8.	2.7	4
42	Bacteriostatic Substrate by Conductivity Method and Electric Spark Discharge Method Combined with Electrospinning for Silver Dressing. International Journal of Polymer Science, 2016, 2016, 1-10.	2.7	9
43	Preparation of Ag-Cu Composite Nanoparticles by the Submerged Arc Discharge Method in Aqueous Media. Materials Transactions, 2016, 57, 294-301.	1.2	9
44	Developing PC-based servo system of micro-EDM for preparing nanosilver colloid. , 2016, , .		0
45	Establishment and case analysis of a photovoltaic cloud management system. , 2016, , .		0
46	Design and implementation of flight information management system. , 2016, , .		3
47	A solution for intelligent street lamp monitoring and energy management. , 2016, , .		4
48	Planning and setup of grid-connected photovoltaic generation systems. , 2016, , .		1
49	Spark Parameter Monitoring Feedback System for Preparation of Nanosilver Colloid in EDM. Materials and Manufacturing Processes, 2016, 31, 186-193.	4.7	11
50	The Effect of NaCl/pH on Colloidal Nanogold Produced by Pulsed Spark Discharge. Journal of Nanomaterials, 2015, 2015, 1-7.	2.7	3
51	Preparation of Ag/Cu/Ti Nanofluids by Spark Discharge System and Its Control Parameters Study. Advances in Materials Science and Engineering, 2015, 2015, 1-10.	1.8	11
52	Development of smart cloud management system for photovoltaic generation. , 2015, , .		1
53	Integration and implementation of EDM preparation of nanometallic fluid system. , 2015, , .		1
54	The design and implementation of a Cloud Renewable Energy Management System. , 2015, , .		2

#	ARTICLE	IF	CITATIONS
55	Preparation of alumina nanoparticles by electrical discharge machining. , 2014, , .		0
56	A Study of Antibioactivity of Nanosilver Colloid and Silver Ion Solution. Advances in Materials Science and Engineering, 2014, 2014, 1-6.	1.8	12
57	Analysis and Improvement of Modeling of Electromagnetic Actuator for Medium Voltage Gas Insulated Switchgear. Electric Power Components and Systems, 2014, 42, 1576-1586.	1.8	4
58	A case study of mechatronics human machine interface technology development research for diesel generator engine power plant. , 2014, , .		1
59	Preparation of Metallic Aluminum Compound Particles by Submerged Arc Discharge Method in Aqueous Media. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2013, 44, 91-97.	2.1	16
60	Rapid and Efficient Synthesis of Silver Nanofluid Using Electrical Discharge Machining. Journal of Nanomaterials, 2013, 2013, 1-6.	2.7	21
61	Optimization of Microwave-Based Heating of Cellulosic Biomass Using Taguchi Method. Materials, 2013, 6, 3404-3419.	2.9	15
62	Development and Evaluation of a Wide Range Impulse Current Generator for Surge Arrester Testing. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2013, E96.A, 713-720.	0.3	0
63	The analysis of regenerative braking power for Taipei Rapid Transit Systems Electrical Multiple Units. , 2012, , .		3
64	Global Positioning System Application in Current Phase Comparison of Differential Protection Relay of Power Transmission Line. Electric Power Components and Systems, 2011, 39, 1621-1631.	1.8	4
65	Preparation of metal nano-fluid via electrical discharge machining. , 2011, , .		2
66	Control Release of Bactericidal Ion by an Electronically Driven System. Journal of Nanoscience and Nanotechnology, 2011, 11, 10750-10754.	0.9	1
67	Pulsed spark-discharge assisted synthesis of colloidal gold nanoparticles in ethanol. Journal of Nanoparticle Research, 2011, 13, 2963-2972.	1.9	17
68	Continuous synthesis of colloidal silver nanoparticles by electrochemical discharge in aqueous solutions. Journal of Nanoparticle Research, 2011, 13, 1865-1872.	1.9	49
69	Production of Silver Ions from Colloidal Silver by Nanoparticle Iontophoresis System. Journal of Nanoscience and Nanotechnology, 2011, 11, 1991-1995.	0.9	7
70	Modeling and analysis of belt conveyor using bond graph approach. , 2011, , .		1
71	Silver carbonate and stability in colloidal silver: A by-product of the electric spark discharge method. Journal of Alloys and Compounds, 2010, 493, 438-440.	5.5	19
72	Identification and quantification of ionic silver from colloidal silver prepared by electric spark discharge system and its antimicrobial potency study. Journal of Alloys and Compounds, 2009, 473, 298-302.	5.5	46

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73	Colloidal silver fabrication using the spark discharge system and its antimicrobial effect on <i>Staphylococcus aureus</i> . <i>Medical Engineering and Physics</i> , 2008, 30, 948-952.	1.7	62
74	Characterization of gold nanoparticles in organic or inorganic medium (ethanol/water) fabricated by spark discharge method. <i>Materials Letters</i> , 2008, 62, 3341-3344.	2.6	35
75	Discovery of ionic silver in silver nanoparticle suspension fabricated by arc discharge method. <i>Journal of Alloys and Compounds</i> , 2008, 463, 408-411.	5.5	117
76	Preparation of gold nanoparticles by arc discharge in water. <i>Journal of Alloys and Compounds</i> , 2007, 434-435, 655-658.	5.5	118
77	Analytical Solution to Harmonic Characteristics of Three-Phase PWM Inverter Using 3-D Modulation Model. <i>Electric Power Components and Systems</i> , 2004, 32, 1105-1120.	1.8	3
78	Load model effects on distance relay settings. <i>IEEE Transactions on Power Delivery</i> , 2003, 18, 1140-1146.	4.3	36
79	Error rate prediction of the low Earth orbit (LEO) satellite channel. , 0, , .		0
80	Study on the Characteristics of Zinc Oxide Nanocolloid Prepared Using Electrical Spark Discharge Method. <i>Journal of Cluster Science</i> , 0, , 1.	3.3	3
81	Dissociation of Colloidal Silver into Ionic Form through Membrane under Electric Field. , 0, , .		1