

# Kuo-Hsiung Tseng

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Preparation of gold nanoparticles by arc discharge in water. <i>Journal of Alloys and Compounds</i> , 2007, 434-435, 655-658.	5.5	118
2	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
3	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
4	Continuous synthesis of colloidal silver nanoparticles by electrochemical discharge in aqueous solutions. <i>Journal of Nanoparticle Research</i> , 2011, 13, 1865-1872.	1.9	49
5	Identification and quantification of ionic silver from colloidal silver prepared by electric spark discharge system and its antimicrobial potency study. <i>Journal of Alloys and Compounds</i> , 2009, 473, 298-302.	5.5	46
6	Load model effects on distance relay settings. <i>IEEE Transactions on Power Delivery</i> , 2003, 18, 1140-1146.	4.3	36
7	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
8	Rapid and Efficient Synthesis of Silver Nanofluid Using Electrical Discharge Machining. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-6.	2.7	21
9	Parameters for Fabricating Nano-Au Colloids through the Electric Spark Discharge Method with Micro-Electrical Discharge Machining. <i>Nanomaterials</i> , 2017, 7, 133.	4.1	20
10	Silver carbonate and stability in colloidal silver: A by-product of the electric spark discharge method. <i>Journal of Alloys and Compounds</i> , 2010, 493, 438-440.	5.5	19
11	Pulsed spark-discharge assisted synthesis of colloidal gold nanoparticles in ethanol. <i>Journal of Nanoparticle Research</i> , 2011, 13, 2963-2972.	1.9	17
12	Preparation of Metallic Aluminum Compound Particles by Submerged Arc Discharge Method in Aqueous Media. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2013, 44, 91-97.	2.1	16
13	Optimization of Microwave-Based Heating of Cellulosic Biomass Using Taguchi Method. <i>Materials</i> , 2013, 6, 3404-3419.	2.9	15
14	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
15	Novel Preparation of Reduced Graphene Oxide—Silver Complex using an Electrical Spark Discharge Method. <i>Nanomaterials</i> , 2019, 9, 979.	4.1	14
16	A Study of Antibioactivity of Nanosilver Colloid and Silver Ion Solution. <i>Advances in Materials Science and Engineering</i> , 2014, 2014, 1-6.	1.8	12
17	Fabricating TiO <sub>2</sub> nanocolloids by electric spark discharge method at normal temperature and pressure. <i>Nanotechnology</i> , 2017, 28, 465701.	2.6	12
18	Green Smart Campus Monitoring and Detection Using LoRa. <i>Sensors</i> , 2021, 21, 6582.	3.8	12

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19	Preparation of Ag/Cu/Ti Nanofluids by Spark Discharge System and Its Control Parameters Study. <i>Advances in Materials Science and Engineering</i> , 2015, 2015, 1-10.	1.8	11
20	Spark Parameter Monitoring Feedback System for Preparation of Nanosilver Colloid in EDM. <i>Materials and Manufacturing Processes</i> , 2016, 31, 186-193.	4.7	11
21	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
22	Bacteriostatic Substrate by Conductivity Method and Electric Spark Discharge Method Combined with Electrospinning for Silver Dressing. <i>International Journal of Polymer Science</i> , 2016, 2016, 1-10.	2.7	9
23	Preparation of Ag-Cu Composite Nanoparticles by the Submerged Arc Discharge Method in Aqueous Media. <i>Materials Transactions</i> , 2016, 57, 294-301.	1.2	9
24	Suspension Stability of Nano-Au and Nano-Ag Colloids Prepared by Electrical Spark Discharge Method. <i>Journal of Cluster Science</i> , 2017, 28, 2653-2668.	3.3	9
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	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
27	Stability analysis of platinum nanoparticles prepared by ESDM in deionised water. <i>Micro and Nano Letters</i> , 2018, 13, 1545-1549.	1.3	8
28	Production of Silver Ions from Colloidal Silver by Nanoparticle Iontophoresis System. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 1991-1995.	0.9	7
29	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
30	Comparison of graphene impregnated with/without nanosilver prepared by submerged arc discharge method. <i>Nanomaterials and Nanotechnology</i> , 2018, 8, 184798041775284.	3.0	5
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	Fabrication of nano-bismuth colloids in deionized water using an electrical discharge machine. <i>Nanotechnology</i> , 2020, 31, 425704.	2.6	5
33	Parameter control and property analysis in the preparation of platinum iodide nanocolloids through the electrical spark discharge method. <i>RSC Advances</i> , 2020, 10, 30169-30175.	3.6	5
34	Development of Proportional-Integrative-Derivative (PID) Optimized for the MicroElectric Discharge Machine Fabrication of Nano-Bismuth Colloid. <i>Micromachines</i> , 2020, 11, 1065.	2.9	5
35	Deriving Optimized PID Parameters of Nano-Ag Colloid Prepared by Electrical Spark Discharge Method. <i>Nanomaterials</i> , 2020, 10, 1091.	4.1	5
36	Implementation of a micro-electrical discharge machining system to fabricate TiO <sub>2</sub> nanocolloid. <i>Mechatronics</i> , 2021, 79, 102649.	3.3	5

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37	Global Positioning System Application in Current Phase Comparison of Differential Protection Relay of Power Transmission Line. <i>Electric Power Components and Systems</i> , 2011, 39, 1621-1631.	1.8	4
38	Analysis and Improvement of Modeling of Electromagnetic Actuator for Medium Voltage Gas Insulated Switchgear. <i>Electric Power Components and Systems</i> , 2014, 42, 1576-1586.	1.8	4
39	A solution for intelligent street lamp monitoring and energy management. , 2016, , .		4
40	A Study of Photocatalysis of Methylene Blue of TiO <sub>2</sub> Fabricated by Electric Spark Discharge Method. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-8.	2.7	4
41	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
42	Parameters and properties for the preparation of Cu nanocolloids containing polyvinyl alcohol using the electrical spark discharge method. <i>Nanomaterials and Nanotechnology</i> , 2021, 11, 184798042110351.	3.0	4
43	Characteristics of Nano-metal Colloid Prepared by Electrical Spark Discharge Method. <i>Current Nanoscience</i> , 2021, 16, 890-911.	1.2	4
44	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
45	The analysis of regenerative braking power for Taipei Rapid Transit Systems Electrical Multiple Units. , 2012, , .		3
46	The Effect of NaCl/pH on Colloidal Nanogold Produced by Pulsed Spark Discharge. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-7.	2.7	3
47	Design and implementation of flight information management system. , 2016, , .		3
48	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
49	Submerged arc discharge for producing nanoscale graphene in deionised water. <i>Micro and Nano Letters</i> , 2018, 13, 31-34.	1.3	3
50	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
51	Preparation of Graphene Through EDM Interfered with CO <sub>2</sub> . <i>Journal of Cluster Science</i> , 2018, 29, 555-559.	3.3	3
52	Effect of the Sun Elevation for Fixed PV System and Single-Axis-Tracking PV System. , 2019, , .		3
53	A Study of a PID Controller Used in a Micro-Electrical Discharge Machining System to Prepare TiO <sub>2</sub> Nanocolloids. <i>Nanomaterials</i> , 2020, 10, 1044.	4.1	3
54	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

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55	Preparation of metal nano-fluid via electrical discharge machining. , 2011, , .		2
56	The design and implementation of a Cloud Renewable Energy Management System. , 2015, , .		2
57	A study of preparing silver iodide nanocolloid by electrical spark discharge method and its properties. Scientific Reports, 2021, 11, 20457.	3.3	2
58	Control Release of Bactericidal Ion by an Electronically Driven System. Journal of Nanoscience and Nanotechnology, 2011, 11, 10750-10754.	0.9	1
59	Modeling and analysis of belt conveyor using bond graph approach. , 2011, , .		1
60	A case study of mechatronics human machine interface technology development research for diesel generator engine power plant. , 2014, , .		1
61	Development of smart cloud management system for photovoltaic generation. , 2015, , .		1
62	Integration and implementation of EDM preparation of nanometallic fluid system. , 2015, , .		1
63	Planning and setup of grid-connected photovoltaic generation systems. , 2016, , .		1
64	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
65	Comparison between stereoscopic structure of nano-silver colloid pre-and post-intervened with PVA through arc discharge. Micro and Nano Letters, 2018, 13, 747-751.	1.3	1
66	Analysis of the suspension stability of silver nanocolloids prepared by electric spark discharge method. , 2018, , .		1
67	Fabricating Tungsten and Tungsten-Trioxide Nanocomposite Colloid in Deionized Water by Electric Spark Discharge Method. Journal of Cluster Science, 2019, 30, 477-482.	3.3	1
68	A Study of Nanosilver Colloid Prepared by Electrical Spark Discharge Method and Its Antifungal Control Benefits. Micromachines, 2021, 12, 503.	2.9	1
69	Preparing Cuprous Iodide Nanocolloid by the Electrical Spark Discharge Method. Journal of Cluster Science, 2022, 33, 2069-2075.	3.3	1
70	Dissociation of Colloidal Silver into Ionic Form through Membrane under Electric Field. , 0, , .		1
71	Implementation of Micro-EDM Monitoring System to Fabricate Antimicrobial Nanosilver Colloid. Micromachines, 2022, 13, 790.	2.9	1
72	Error rate prediction of the low Earth orbit (LEO) satellite channel. , 0, , .		0

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73	Preparation of alumina nanoparticles by electrical discharge machining. , 2014, , .		0
74	Developing PC-based servo system of micro-EDM for preparing nanosilver colloid. , 2016, , .		0
75	Establishment and case analysis of a photovoltaic cloud management system. , 2016, , .		0
76	The Suspension of Platinum Nanoparticles Prepared by Electric Discharge Method in Ethanol. Journal of Cluster Science, 2018, 29, 679-683.	3.3	0
77	Design and implementation of the micro-electric discharge machine to prepare nano silver colloid. , 2018, , .		0
78	Optimized Design and Implementation for Discharge Circuit of Micro-Electrical Discharge Machine in Preparation of Nano Silver Colloid. , 2019, , .		0
79	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
80	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
81	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