

# Tae-Hee Kim

## List of Publications by Year in descending order

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35  
papers

370  
citations

949033

11  
h-index

939365

18  
g-index

35  
all docs

35  
docs citations

35  
times ranked

420  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanofabrication by thermal plasma jets: From nanoparticles to low-dimensional nanomaterials. Journal of Applied Physics, 2019, 125, .	1.1	55
2	Synthesis of boron nitride nanotubes using triple DC thermal plasma reactor with hydrogen injection. Chemical Engineering Journal, 2020, 395, 125148.	6.6	31
3	Synthesis of nanocrystalline magnesium nitride (Mg <sub>3</sub> N <sub>2</sub> ) powder using thermal plasma. Applied Surface Science, 2011, 257, 5375-5379.	3.1	25
4	Effects of NH <sub>3</sub> flow rate on the thermal plasma synthesis of AlN nanoparticles. Journal of the Korean Physical Society, 2013, 63, 1864-1870.	0.3	20
5	Synthesis of silicon nanopowder from silane gas by RF thermal plasma. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 310-315.	0.8	19
6	Preparation of silica coated iron oxide nanoparticles using non-transferred arc plasma. Advanced Powder Technology, 2012, 23, 701-707.	2.0	17
7	Electrochemical performance of Si-multiwall carbon nanotube nanocomposite anode synthesized by thermal plasma. Thin Solid Films, 2015, 587, 14-19.	0.8	16
8	Thermal Flow Characteristics of the Triple Plasma Torch System for Nanoparticle Synthesis. IEEE Transactions on Plasma Science, 2019, 47, 3366-3373.	0.6	15
9	Numerical simulation on the influence of water spray in thermal plasma treatment of CF <sub>4</sub> gas. Current Applied Physics, 2012, 12, 509-514.	1.1	13
10	Synthesis of Metal Boride Nanoparticles Using Triple Thermal Plasma Jet System. Journal of Nanoscience and Nanotechnology, 2019, 19, 6264-6270.	0.9	12
11	Synthesis of Tungsten Carbide Nanomaterials in Triple DC Thermal Plasma Jet System. Journal of Nanoscience and Nanotechnology, 2019, 19, 6277-6284.	0.9	12
12	Synthesis of Cubic Boron Nitride Nanoparticles from Boron Oxide, Melamine and NH <sub>3</sub> by Non-Transferred Arc Thermal Plasma. Journal of Nanoscience and Nanotechnology, 2015, 15, 8515-8520.	0.9	11
13	Preparation of Silicon Nanopowder by Recycling Silicon Wafer Waste in Radio-Frequency Thermal Plasma Process. Plasma Chemistry and Plasma Processing, 2017, 37, 967-978.	1.1	11
14	Formation of Transition Alumina Dust around Asymptotic Giant Branch Stars: Condensation Experiments using Induction Thermal Plasma Systems. Astrophysical Journal Letters, 2019, 878, L7.	3.0	11
15	Influence of injected silver content on synthesis of silver coated nickel particles by DC thermal plasma. Applied Surface Science, 2016, 374, 257-264.	3.1	10
16	Synthesis of cobalt boride nanoparticles and h-BN nanocage encapsulation by thermal plasma. Ceramics International, 2020, 46, 28792-28799.	2.3	10
17	Thermal Plasma Synthesis of Crystalline Gallium Nitride Nanopowder from Gallium Nitrate Hydrate and Melamine. Nanomaterials, 2016, 6, 38.	1.9	9
18	Hydrophilic Surface Modification of Polytetrafluoroethylene Film with Gliding Arc Plasma. Applied Science and Convergence Technology, 2019, 28, 101-106.	0.3	9

#	ARTICLE	IF	CITATIONS
19	Thermal Plasma Synthesis of Ceramic Nanomaterials. Applied Science and Convergence Technology, 2020, 29, 117-123.	0.3	9
20	Synthesis of CeO <sub>2</sub> nanocrystalline powders using DC non-transferred thermal plasma at atmospheric pressure. Advanced Powder Technology, 2016, 27, 2012-2018.	2.0	6
21	Numerical analysis of thermal plasma scrubber for CF <sub>4</sub> decomposition. Plasma Science and Technology, 2019, 21, 064002.	0.7	6
22	Synthesis of titanium boride nanoparticles and fabrication of flexible material for radiation shielding. Current Applied Physics, 2021, 31, 151-157.	1.1	6
23	Synthesis of Few Layer Graphene by Non-Transferred Arc Plasma System. Journal of Nanoscience and Nanotechnology, 2013, 13, 7418-7423.	0.9	5
24	Preparation of Hexagonal Boron Nitride Nanoparticles by Non-Transferred Arc Plasma. Journal of Nanoscience and Nanotechnology, 2017, 17, 9217-9223.	0.9	5
25	Purification and Nitrogen Doping of Nanothin Exfoliated Graphite Through RF Thermal Plasma Treatment. Nanomaterials, 2019, 9, 995.	1.9	5
26	Crystal Phase Control Process of Anatase and Rutile TiO <sub>2</sub> Nanopowder by Thermal Plasma. Science of Advanced Materials, 2017, 9, 1637-1643.	0.1	5
27	Numerical modelling of a low power non-transferred arc plasma reactor for methane conversion. Plasma Science and Technology, 2019, 21, 064005.	0.7	4
28	Facile synthesis of cubic boron nitride nanoparticles from amorphous boron by triple thermal plasma jets at atmospheric pressure. Advanced Powder Technology, 2022, 33, 103400.	2.0	3
29	Synthesis of Gallium-oxide nanoparticles and nanowires by using a thermal plasma. Journal of the Korean Physical Society, 2015, 66, 1233-1238.	0.3	2
30	Preparation of silver coated nickel particles by thermal plasma with pre-treatment using ball milling. Advanced Powder Technology, 2018, 29, 2686-2692.	2.0	2
31	Estimate of the Cathodic Arc Spot Size in a Nontransferred Arc Plasma Torch by Comparing the Results of a Numerical Analysis with the Experimental Results. Journal of the Korean Physical Society, 2019, 74, 785-790.	0.3	2
32	Numerical Simulation of Cement Kiln Combined with Thermal Plasma for SF <sub>6</sub> Pyrolysis. Applied Science and Convergence Technology, 2019, 28, 93-100.	0.3	2
33	Effects of Operating Condition on the 2-dimensional Temperature and Velocity Distributions of a Thermal Plasma Jet in a Segmented Arc Heater. Journal of the Korean Physical Society, 2018, 73, 592-598.	0.3	1
34	Synthesis of metal boride nanoparticles by using thermal plasmas. Journal of the Korean Physical Society, 0, , 1.	0.3	1
35	Numerical Simulation of 3-Dimensional Temperature Distribution in a Hot Filament Chemical Vapor Deposition Chamber. Science of Advanced Materials, 2019, 11, 1587-1593.	0.1	0