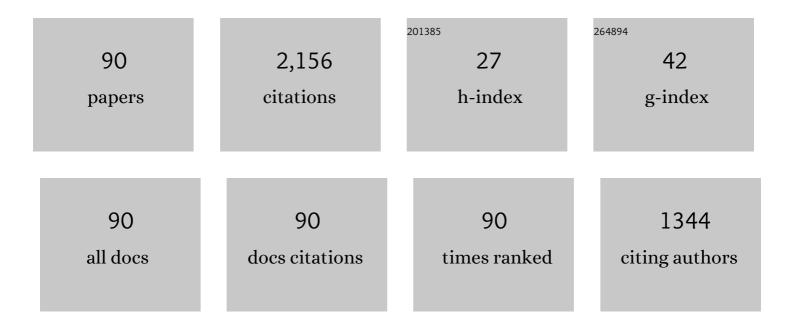
List of Publications by Year in descending order

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MIN SUK CHA

| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Production of SiC Nanoparticles in Carbon Network by Pulsed Electrical Discharges in Liquid<br>Hexamethyldisilazane with Gaseous Bubbles. Plasma Chemistry and Plasma Processing, 2022, 42, 605.    | 1.1 | 1         |
| 2  | Plasma Technology–Preparing for the Electrified Future. Frontiers in Mechanical Engineering, 2022, 8,   | 0.8 | 11        |
| 3  | Kinetic study of plasma assisted oxidation of H2 for an undiluted lean mixture. Combustion and Flame, 2022, 242, 112205.  | 2.8 | 12        |
| 4  | Inevitable chemical effect of balance gas in low temperature plasma assisted combustion. Combustion and Flame, 2021, 225, 1-4.  | 2.8 | 15        |
| 5  | Effects of Schmidt number on non-monotonic liftoff height behavior in laminar coflow-jet flames<br>with diluted methane and ethylene. Proceedings of the Combustion Institute, 2021, 38, 1913-1921. | 2.4 | 3         |
| 6  | Electric field measurement in electric-field modified flames. Proceedings of the Combustion Institute, 2021, 38, 6651-6660.   | 2.4 | 9         |
| 7  | Elevated pressure increases the effect of electric fields on ionic wind in methane premixed jet flames.<br>Proceedings of the Combustion Institute, 2021, 38, 6679-6686.                            | 2.4 | 5         |
| 8  | On the oscillating flame characteristics in nonpremixed laminar coflow-jets: An experimental and numerical study. Proceedings of the Combustion Institute, 2021, 38, 2049-2056.                     | 2.4 | 3         |
| 9  | Transformation of <i>n</i> -heptane using an in-liquid submerged microwave plasma jet of argon.<br>Journal of Applied Physics, 2021, 129, .   | 1.1 | 7         |
| 10 | Synthesis of Silicon and Silicon Carbide Nanoparticles by Pulsed Electrical Discharges in Dielectric<br>Liquids. Plasma Chemistry and Plasma Processing, 2021, 41, 1647-1660.                       | 1.1 | 7         |
| 11 | Microwave Plasma Jet in Water: Effect of Water Electrical Conductivity on Plasma Characteristics.<br>Plasma Chemistry and Plasma Processing, 2020, 40, 169-185.                                     | 1.1 | 21        |
| 12 | Nanosecond second harmonic generation for electric field measurements with temporal resolution shorter than laser pulse duration. Journal Physics D: Applied Physics, 2020, 53, 145201.             | 1.3 | 29        |
| 13 | Synthesis of Copper and Copper Oxide Nanomaterials by Pulsed Electric Field in Water with Various<br>Electrical Conductivities. Nanomaterials, 2020, 10, 1347.                                      | 1.9 | 8         |
| 14 | Dry reforming of methane in a temperature-controlled dielectric barrier discharge reactor:<br>disclosure of reactant effect. Journal Physics D: Applied Physics, 2020, 53, 194002.                  | 1.3 | 10        |
| 15 | Synthesis of copper and copper oxide nanomaterials by electrical discharges in water with various electrical conductivities. Journal of Applied Physics, 2020, 127, .                               | 1.1 | 21        |
| 16 | Glycerol Reforming in an Aqueous Discharge Reformer. , 2020, , .  |     | 0         |
| 17 | Development and Validation of a Temperature Dependent Plasmachemical Kinetics Set for H/N/O<br>Systems. , 2020, , .   |     | 0         |
| 18 | Edge flame propagation via parallel electric fields in nonpremixed coflow jets. Proceedings of the<br>Combustion Institute, 2019, 37, 5537-5544.  | 2.4 | 14        |

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|----|---|-----|-----------|
| 19 | Decreasing liftoff height behavior in diluted laminar lifted methane jet flames. Proceedings of the<br>Combustion Institute, 2019, 37, 2005-2012.   | 2.4 | 20        |
| 20 | Propagation and extinction of premixed edge-flames. Proceedings of the Combustion Institute, 2019, 37, 1823-1830.   | 2.4 | 4         |
| 21 | Mechanism on oscillating lifted flames in nonpremixed laminar coflow jets. Proceedings of the Combustion Institute, 2019, 37, 1997-2004.  | 2.4 | 11        |
| 22 | Flame spread over twin electrical wires with applied DC electric fields. Combustion and Flame, 2019, 210, 350-359.  | 2.8 | 11        |
| 23 | Three-dimensional simulation of ionic wind in a laminar premixed Bunsen flame subjected to a transverse DC electric field. Combustion and Flame, 2019, 202, 90-106.   | 2.8 | 25        |
| 24 | Effect of AC electric field on flame spread in electrical wire: Variation in polyethylene insulation thickness and di-electrophoresis phenomenon. Combustion and Flame, 2019, 202, 107-118.   | 2.8 | 16        |
| 25 | Suppressing the formation of NO <sub>x</sub> and N <sub>2</sub> O in<br>CO <sub>2</sub> /N <sub>2</sub> dielectric barrier discharge plasma by adding CH <sub>4</sub> :<br>scavenger chemistry at work. Sustainable Energy and Fuels, 2019, 3, 1388-1395. | 2.5 | 10        |
| 26 | Effects of Camphor Oil Addition to Diesel on the Nanostructures and Oxidative Reactivity of Combustion-Generated Soot. Energy & Fuels, 2019, 33, 12852-12864.   | 2.5 | 22        |
| 27 | Vortex formation mechanism within fuel streams in laminar nonpremixed jet flames. Combustion and Flame, 2019, 199, 46-53.   | 2.8 | 6         |
| 28 | Effect of DC Electric Fields on Flame Spread Over Twin Electrical Wires. , 2019, , .  |     | 0         |
| 29 | In-liquid arc plasma jet and its application to phenol degradation. Journal Physics D: Applied Physics, 2018, 51, 114005.   | 1.3 | 18        |
| 30 | Modeling Plasma-based CO <sub>2</sub> and CH <sub>4</sub> Conversion in Mixtures with<br>N <sub>2</sub> , O <sub>2</sub> , and H <sub>2</sub> O: The Bigger Plasma Chemistry Picture. Journal of<br>Physical Chemistry C, 2018, 122, 8704-8723.           | 1.5 | 111       |
| 31 | Plasma-based multi-reforming for Gas-To-Liquid: tuning the plasma chemistry towards methanol.<br>Scientific Reports, 2018, 8, 15929.  | 1.6 | 33        |
| 32 | Dynamic responses of counterflow nonpremixed flames to AC electric field. Combustion and Flame, 2018, 198, 240-248.   | 2.8 | 17        |
| 33 | Effect of buoyancy on dynamical responses of coflow diffusion flame under low-frequency alternating current. Combustion Science and Technology, 2018, 190, 1832-1849.   | 1.2 | 3         |
| 34 | Steam reforming of methane in a temperature-controlled dielectric barrier discharge reactor: the<br>role of electron-induced chemistry versus thermochemistry. Journal Physics D: Applied Physics, 2018,<br>51, 385201.                                   | 1.3 | 18        |
| 35 | Microwave Plasma Jet in Water: Characterization and Feasibility to Wastewater Treatment. Plasma<br>Chemistry and Plasma Processing, 2018, 38, 1003-1020.  | 1.1 | 25        |
| 36 | Carbon-based nanomaterial synthesis using nanosecond electrical discharges in immiscible layered<br>liquids: n-heptane and water. Journal Physics D: Applied Physics, 2018, 51, 244003.   | 1.3 | 12        |

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|----|---|-----|-----------|
| 37 | Time evolution of propagating nonpremixed flames in a counterflow, annular slot burner under AC electric fields. Proceedings of the Combustion Institute, 2017, 36, 1421-1430.  | 2.4 | 15        |
| 38 | Instability and electrical response of small laminar coflow diffusion flames under AC electric fields:<br>Toroidal vortex formation and oscillating and spinning flames. Proceedings of the Combustion<br>Institute, 2017, 36, 1621-1628. | 2.4 | 13        |
| 39 | Transfer functions of laminar premixed flames subjected to forcing by acoustic waves, AC electric<br>fields, and non-thermal plasma discharges. Proceedings of the Combustion Institute, 2017, 36, 4183-4192.                             | 2.4 | 46        |
| 40 | Flow instability in laminar jet flames driven by alternating current electric fields. Proceedings of the Combustion Institute, 2017, 36, 4175-4182.   | 2.4 | 15        |
| 41 | Synthesis of Carbon–Metal Multi-Strand Nanocomposites by Discharges in Heptane Between Two<br>Metallic Electrodes. Plasma Chemistry and Plasma Processing, 2017, 37, 1069-1090.   | 1.1 | 4         |
| 42 | A parametric study of AC electric field-induced toroidal vortex formation in laminar nonpremixed coflow flames. Combustion and Flame, 2017, 182, 142-149.   | 2.8 | 4         |
| 43 | Investigation of Gas Heating by Nanosecond Repetitively Pulsed Glow Discharges Used for Actuation of a Laminar Methane-Air Flame. Combustion Science and Technology, 2017, 189, 2012-2022.  | 1.2 | 14        |
| 44 | The effect of electrical conductivity on nanosecond discharges in distilled water and in methanol with argon bubbles. Journal Physics D: Applied Physics, 2017, 50, 185207.   | 1.3 | 22        |
| 45 | Visualization of ionic wind in laminar jet flames. Combustion and Flame, 2017, 184, 246-248.  | 2.8 | 35        |
| 46 | Synthesis of SiOC:H nanoparticles by electrical discharge in hexamethyldisilazane and water. Plasma<br>Processes and Polymers, 2017, 14, 1700089.   | 1.6 | 10        |
| 47 | Analysis of the step responses of laminar premixed flames to forcing by non-thermal plasma.<br>Proceedings of the Combustion Institute, 2017, 36, 4145-4153.  | 2.4 | 20        |
| 48 | Low-dielectric layer increases nanosecond electric discharges in distilled water. AIP Advances, 2016, 6, 105112.  | 0.6 | 8         |
| 49 | Tailored reforming of n-dodecane in an aqueous discharge reactor. Journal Physics D: Applied Physics, 2016, 49, 175201.   | 1.3 | 27        |
| 50 | The effects of gaseous bubble composition and gap distance on the characteristics of nanosecond discharges in distilled water. Journal Physics D: Applied Physics, 2016, 49, 245203.  | 1.3 | 32        |
| 51 | Propagating nonpremixed edge-flames in a counterflow, annular slot burner under DC electric fields.<br>Combustion and Flame, 2016, 173, 114-122.  | 2.8 | 13        |
| 52 | Kinetics and dynamics of nanosecond streamer discharge in atmospheric-pressure gas bubble<br>suspended in distilled water under saturated vapor pressure conditions. Journal Physics D: Applied<br>Physics, 2016, 49, 395205.             | 1.3 | 18        |
| 53 | Ozone Production With Dielectric Barrier Discharge: Effects of Power Source and Humidity. IEEE<br>Transactions on Plasma Science, 2016, 44, 2288-2296.  | 0.6 | 68        |
| 54 | Selective control of reformed composition of n -heptane via plasma chemistry. Fuel, 2016, 186, 150-156.   | 3.4 | 7         |

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|----|---|-----|-----------|
| 55 | Nanosecond Discharge in Bubbled Liquid n-Heptane: Effects of Gas Composition and Water Addition.<br>IEEE Transactions on Plasma Science, 2016, 44, 2988-2994.     | 0.6 | 10        |
| 56 | DC field response of one-dimensional flames using an ionized layer model. Combustion and Flame, 2016, 163, 317-325.   | 2.8 | 35        |
| 57 | Bidirectional ionic wind in nonpremixed counterflow flames with DC electric fields. Combustion and Flame, 2016, 168, 138-146.                                     | 2.8 | 54        |
| 58 | Correction of edge-flame propagation speed in a counterflow, annular slot burner. Combustion and Flame, 2015, 162, 4671-4672.                                     | 2.8 | 7         |
| 59 | Numerical and Experimental Study on Negative Buoyance Induced Vortices in N-Butane Jet Flames. , 2015, , .  |     | Ο         |
| 60 | AC electric field induced vortex in laminar coflow diffusion flames. Proceedings of the Combustion Institute, 2015, 35, 3513-3520.                                | 2.4 | 45        |
| 61 | Partial oxidation of methane in a temperature-controlled dielectric barrier discharge reactor.<br>Proceedings of the Combustion Institute, 2015, 35, 3447-3454.   | 2.4 | 50        |
| 62 | Tip opening of premixed bunsen flames: Extinction with negative stretch and local Karlovitz number.<br>Combustion and Flame, 2015, 162, 1614-1621.                | 2.8 | 22        |
| 63 | The reformation of liquid hydrocarbons in an aqueous discharge reactor. Journal Physics D: Applied Physics, 2015, 48, 215201.                                     | 1.3 | 43        |
| 64 | Ignition modes of nanosecond discharge with bubbles in distilled water. Journal Physics D: Applied<br>Physics, 2015, 48, 405206.                                  | 1.3 | 34        |
| 65 | Fuel density effect on near nozzle flow field in small laminar coflow diffusion flames. Proceedings of the Combustion Institute, 2015, 35, 873-880.               | 2.4 | 34        |
| 66 | Soot Reduction Under DC Electric Fields in Counterflow Non-Premixed Laminar Ethylene Flames.<br>Combustion Science and Technology, 2014, 186, 644-656.            | 1.2 | 37        |
| 67 | Stability enhancement of ozone-assisted laminar premixed Bunsen flames in nitrogen co-flow.<br>Combustion and Flame, 2014, 161, 917-926.                          | 2.8 | 58        |
| 68 | Electron-induced dry reforming of methane in a temperature-controlled dielectric barrier discharge reactor. Journal Physics D: Applied Physics, 2013, 46, 415205. | 1.3 | 76        |
| 69 | Premixed Combustion Under Electric Field in a Constant Volume Chamber. IEEE Transactions on Plasma<br>Science, 2012, 40, 3131-3138.                               | 0.6 | 34        |
| 70 | Characteristics of Oscillating Flames in a Coaxial Confined Jet. International Journal of Spray and Combustion Dynamics, 2010, 2, 357-373.                        | 0.4 | 0         |
| 71 | Effect of excess oxygen in plasma reforming of diesel fuel. International Journal of Hydrogen Energy,<br>2010, 35, 4668-4675.                                     | 3.8 | 47        |
| 72 | Plasma-controlled chemistry in plasma reforming of methane. International Journal of Hydrogen<br>Energy, 2010, 35, 10967-10976.                                   | 3.8 | 60        |

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|----|---|-----|-----------|
| 73 | Efficient Use of \$hbox{CO}_{2}\$ Reforming of Methane With an Arc-Jet Plasma. IEEE Transactions on Plasma Science, 2010, 38, 3291-3299.  | 0.6 | 35        |
| 74 | Characteristics of rotating arc for CF <sub align="right">4 removal. International Journal of<br/>Environment and Waste Management, 2008, 2, 412.</sub>   | 0.2 | 3         |
| 75 | Effects of Hydrocarbons and Water Vapor on NO <i><sub>x</sub></i> Using<br>V <sub>2</sub> O <sub>5</sub> â^WO <sub>3</sub> /TiO <sub>2</sub> Catalyst Reduction in Combination<br>with Nonthermal Plasma. Industrial & Engineering Chemistry Research, 2007, 46, 5570-5575. | 1.8 | 22        |
| 76 | Effect of electric fields on reattachment and propagation speed of tribrachial flames in laminar coflow jets. Proceedings of the Combustion Institute, 2007, 31, 963-970.   | 2.4 | 90        |
| 77 | Optimization scheme of a rotating gliding arc reactor for partial oxidation of methane. Proceedings of the Combustion Institute, 2007, 31, 3343-3351.   | 2.4 | 137       |
| 78 | Propagation rates of nonpremixed edge flames. Combustion and Flame, 2006, 146, 312-328.   | 2.8 | 71        |
| 79 | CF/sub 4/ decompositions using streamer- and glow-mode in dielectric barrier discharges. IEEE<br>Transactions on Plasma Science, 2005, 33, 1041-1046.   | 0.6 | 14        |
| 80 | Effect of electric fields on the liftoff of nonpremixed turbulent jet flames. IEEE Transactions on<br>Plasma Science, 2005, 33, 1703-1709.  | 0.6 | 56        |
| 81 | Boundary-velocity gradient and premixed flame blowoff in U-bend tubes with secondary flow.<br>Combustion and Flame, 2003, 132, 601-609.   | 2.8 | 10        |
| 82 | Measurements of Electron Energy by Emission Spectroscopy in Pulsed Corona and Dielectric Barrier<br>Discharges. Journal of Advanced Oxidation Technologies, 2003, 6, .  | 0.5 | 10        |
| 83 | Synergetic Effects of Non-thermal Plasma and Catalysts on VOCs Decomposition. Journal of Advanced<br>Oxidation Technologies, 2003, 6, .   | 0.5 | 0         |
| 84 | Fundamental Study on Durability of Photocatalyst-Plasma-Honeycomb (PPH) Converter. , 2003, , .  |     | 1         |
| 85 | Characteristics of Dielectric Barrier Glow Discharges with a Low-Frequency Generator in Nitrogen.<br>Journal of the Korean Physical Society, 2003, 43, 732-737.   | 0.3 | 13        |
| 86 | Lifted flame stabilization in developing and developed regions of coflow jets for highly diluted propane. Proceedings of the Combustion Institute, 2000, 28, 2093-2099.   | 2.4 | 63        |
| 87 | Effect of swirl on lifted flame characteristics in nonpremixed jets. Combustion and Flame, 1999, 117, 636-645.  | 2.8 | 14        |
| 88 | Characteristics of lifted flames in nonpremixed turbulent confined jets. Proceedings of the Combustion Institute, 1996, 26, 121-128.  | 0.3 | 52        |
| 89 | Active Regenerative DPF Using a Plasma Assisted Burner. , 0, , .  |     | 8         |
| 90 | Effects of DC Electric Fields on Flickering and Acoustic Oscillations of an M-shape Premixed Flame.<br>Flow, Turbulence and Combustion, 0, , 1.   | 1.4 | 2         |