

Alexander F Gutsol

List of Publications by Year in descending order

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25
papers

5,439
citations

394286

19
h-index

580701

25
g-index

25
all docs

25
docs citations

25
times ranked

3751
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | High conversion of hydrogen sulfide in gliding arc plasmatron. International Journal of Hydrogen Energy, 2017, 42, 68-75. | 3.8 | 12 |
| 2 | Transverse 2-D Gliding Arc Modeling. IEEE Transactions on Plasma Science, 2017, 45, 555-564. | 0.6 | 9 |
| 3 | The 2012 Plasma Roadmap. Journal Physics D: Applied Physics, 2012, 45, 253001. | 1.3 | 511 |
| 4 | Non-thermal plasma-assisted fuel conversion for green chemistry. Journal Physics D: Applied Physics, 2011, 44, 270301. | 1.3 | 7 |
| 5 | On-board plasma-assisted conversion of heavy hydrocarbons into synthesis gas. Fuel, 2010, 89, 1187-1192. | 3.4 | 101 |
| 6 | Cold Plasma Inactivation of <i>Bacillus cereus</i> and <i>Bacillus anthracis</i> (Anthrax) Spores. IEEE Transactions on Plasma Science, 2010, 38, 1878-1884. | 0.6 | 48 |
| 7 | Inactivation of Bacteria in Flight by Direct Exposure to Nonthermal Plasma. IEEE Transactions on Plasma Science, 2010, 38, 3234-3240. | 0.6 | 46 |
| 8 | Removal of CaCO ₃ scales on a filter membrane using plasma discharge in water. International Journal of Heat and Mass Transfer, 2009, 52, 4901-4906. | 2.5 | 18 |
| 9 | Simulation of gas species and temperature separation in the counter-flow Ranque-Hilsch vortex tube using the large eddy simulation technique. International Journal of Heat and Mass Transfer, 2009, 52, 3320-3333. | 2.5 | 66 |
| 10 | Applied Plasma Medicine. Plasma Processes and Polymers, 2008, 5, 503-533. | 1.6 | 1,790 |
| 11 | Characteristics of Gliding Arc and Its Application in Combustion Enhancement. Journal of Propulsion and Power, 2008, 24, 1216-1228. | 1.3 | 82 |
| 12 | Rapid Inactivation of Airborne Bacteria Using Atmospheric Pressure Dielectric Barrier Grating Discharge. IEEE Transactions on Plasma Science, 2007, 35, 1501-1510. | 0.6 | 116 |
| 13 | Mechanism of Blood Coagulation by Nonthermal Atmospheric Pressure Dielectric Barrier Discharge Plasma. IEEE Transactions on Plasma Science, 2007, 35, 1559-1566. | 0.6 | 270 |
| 14 | Spatially Resolved Temperature Measurements of Atmospheric-Pressure Normal Glow Microplasmas in Air. IEEE Transactions on Plasma Science, 2007, 35, 1448-1455. | 0.6 | 35 |
| 15 | Comparison of Direct and Indirect Effects of Non-Thermal Atmospheric-Pressure Plasma on Bacteria. Plasma Processes and Polymers, 2007, 4, 370-375. | 1.6 | 487 |
| 16 | Modeling of direct current micro-plasma discharges in atmospheric pressure hydrogen. Plasma Sources Science and Technology, 2007, 16, 619-634. | 1.3 | 31 |
| 17 | Floating Electrode Dielectric Barrier Discharge Plasma in Air Promoting Apoptotic Behavior in Melanoma Skin Cancer Cell Lines. Plasma Chemistry and Plasma Processing, 2007, 27, 163-176. | 1.1 | 533 |
| 18 | Spectroscopic studies and rotational and vibrational temperature measurements of atmospheric pressure normal glow plasma discharges in air. Plasma Sources Science and Technology, 2006, 15, 818-827. | 1.3 | 149 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Simulation of dc atmospheric pressure argon micro glow-discharge. Plasma Sources Science and Technology, 2006, 15, 676-688. | 1.3 | 99 |
| 20 | CO2-Free Energy and Hydrogen Production from Hydrocarbons. Energy & Fuels, 2006, 20, 1242-1249. | 2.5 | 19 |
| 21 | A Study of Two-Dimensional Microdischarge Pattern Formation in Dielectric Barrier Discharges. Plasma Chemistry and Plasma Processing, 2006, 26, 127-135. | 1.1 | 23 |
| 22 | Blood Coagulation and Living Tissue Sterilization by Floating-Electrode Dielectric Barrier Discharge in Air. Plasma Chemistry and Plasma Processing, 2006, 26, 425-442. | 1.1 | 589 |
| 23 | Combustion Enhancement via Stabilized Piecewise Nonequilibrium Gliding Arc Plasma Discharge. AIAA Journal, 2006, 44, 142-150. | 1.5 | 146 |
| 24 | Dielectric Barrier Discharge Plasma in Coagulation and Sterilization.. Blood, 2006, 108, 4043-4043. | 0.6 | 8 |
| 25 | Characterization of a dc atmospheric pressure normal glow discharge. Plasma Sources Science and Technology, 2005, 14, 700-711. | 1.3 | 244 |