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		d. Penerbit	:	American Institute of Physics,
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Prof. Dr. Kusworo Adi, S.Si., M.T.
NIP. 197203171998021001
Unit Kerja : Fisika/FSM/UNDIP
Bidang Ilmu: Fisika Instrumentasi

Reviewer 2

Prof. Dr. Agus Subagio, S.Si., M.Si.
NIP. 19710813 1995121001
Unit Kerja : Fisika/FSM/UNDIP
Bidang Ilmu: Fisika Material

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   Lingkup bahasan dari artikel ini adalah bidang fisika. Pembahasan cukup baik yaitu bahwa ion arus sebanding dengan V2 menurut perhitungan oleh Chouelo untuk pendekatan medan hiperbolik. Mobilitas ion diperoleh dari pencocokan polinomial kuadrat data eksperimen adalah arus dan tegangan serta formulasi Choelo. Kedalaman pembahasan baik.
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Reviewer 1

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Bidang Ilmu: Fisika Instrumentasi

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2. **<u>Ruang lingkup dan kedalaman pembahasan:</u>**
   Pembahasan artikel terkait penentuan mobilitas ion dalam zone aliran EHD pada generator plasma. Artikel ini juga dilengkapi dengan referensi pada bagian pembahasan untuk menguatkan diskusi didukung oleh data pada tabel dan gambar.
3. **<u>Kecukupan dan kemutakhiran data/informasi dan metodologi:</u>**
   Metode standar serta referensi yang digunakan cukup baik terkait setting eksperimen. Makalah didukung oleh 11 daftar pustaka.
4. **<u>Kelengkapan unsur dan kualitas terbitan:</u>**
   Prosiding untuk artikel yang diterbitkan telah terindex dan memiliki kualitas internasional. Kelengkapan dan kualitas cukup baik terdapat gambar dan tabel untuk memudahkan penjelasan.

Semarang, 10 Februari 2023
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Determination of ion mobility in EHD flow zone of plasma generator

Sumariyah[a] ; Kusminarto[b]; Hermanto, Arief[b]; Nuswantoro, Pekik[b]

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Abstract

Determination has been carried out for ion mobility in EHD flow zone generated using a pin-concentric multiple ring electrodes and a pin-single ring electrode used as a comparator. The pin needle was made from stainless steel with a tip diameter of 0.18?mm. The concentris multiple ring electrode in form three/two concentric ring electrodes which made of metal material connected to each other. Each ring of three concentric ring electrode has a diameter of 24?mm, 16?mm and 8?mm. And each ring of two concentric ring electrode has a diameter of 24?mm and 16?mm. Single ring electrode has a diameter24?mm. The all ring has same of width and thickness were 2?mm and 3?mm. EHD was generated by using a DC high voltage of 10?kV. Pin functional as an active electrode of corona discharge while the all ring electrodes acted as ions collector and passive electrodes. The

experimental results show that the ion current is proportional to V^2 according to calculations by Chouelo for hyperbolic-field approach. Ion mobility obtained from the quadratic polynomial fitting of experimental data were current and voltage as well as Choelo formulation. The results showed that the mobility of ions in the EHD flow zones utilizing pin-consentric multiple ring electrode larger than utilizing pin-single ring electrode. Pin-three Consentic ring electrode has the largest of ion mobility . © 2015 AIP Publishing LLC.

Author keywords

EHD flow zone ; Ion mobility ; Pin-three/two concentric ring electrodes

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Javier E. Garay
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Javier E. Garay is a professor in the department of Mechanical and Aerospace Engineering and the Materials Science and Engineering Program at the Jacobs School of Engineering at University of California, San Diego (UCSD). He received his B.S. in Mechanical Engineering, his M.S. and Ph.D in Materials Science and Engineering all from the University of California, Davis. During his PhD studies, he also worked at the Lawrence Livermore National Laboratory where he studied

material defects using positron annihilation spectroscopy. Prior to his position at UCSD, he was a professor at UC Riverside where he also served as Chair of the Materials Science & Engineering Program.

As the director of the Advanced Material Processing and Synthesis (AMPS) Lab at UCSD, Professor Garay focuses his research on materials property measurements, the integration of materials in devices with application in optical devices, magnetic devices, thermal energy storage/ management, and materials synthesis and processing with an emphasis on designing the micro/nanostructure of bulk materials/thin films for property optimization. He is also particularly interested in understanding the role of the length scale of nano-/ micro-structural features on light, heat and magnetism.

A. T. Charlie Johnson Jr.
University of Pennsylvania,
Philadelphia, PA, USA

A.T. Charlie Johnson is a professor of physics in the Department of Physics and Astronomy at the University of Pennsylvania. He received his B.S. in physics from Stanford University and his Ph.D. in physics from Harvard University. He did postdoctoral fellowships at the Delft University of Technology (Applied Physics) and NIST (Cryoelectronic Metrology). His honors include the Christian R. and Mary F. Lindback Foundation Award for distinguished teaching at Penn, the Jack Raper Outstanding Technology Directions Paper Award of the International Solid State Circuit Conference, an Alfred P. Sloan Research Fellowship, and a Packard Fellowship for Science and Engineering.

Dr. Johnson's research is focused on the nano-scale transport properties (charge, energy, spin, etc.) of nanostructures and single molecules, including carbon nanotubes, graphene, DNA, synthetic proteins, and other biomolecules. He is particularly interested in the physical properties of hybrid nanostructures and their use in molecular sensing. Other research interests include the development of scanning probe techniques for electronic property measurement of nanomaterials and nanodevices, molecular electronics and nanogaps, local probes of nanoscale systems, and nanotube and nanowire electronics.

Ben Slater
University College London (UCL),
London, United Kingdom

Ben Slater is a reader at UCL Chemistry. He received his BSc in chemistry from the University of Nottingham and was awarded his PhD at the University of Reading. He did postdoctoral work at the Royal Institution of Great Britain (Ri) and became an assistant director of the Davy Faraday Research Laboratory at the Ri in 1999. He joined UCL Chemistry in 2007 and was awarded the Royal Society of Chemistry Barrer prize in 2008.

Dr. Slater's research is focused on using atomistic computer simulation to understand and predict the structure and properties of materials. He has published extensively in the area of porous materials (including zeolites and metal-organic frameworks) and water ices. He has a particular interest in defects in materials and surface mediated processes, such as crystal growth.

Masaaki Tanaka
The University of Tokyo,
Tokyo, Japan

Masaaki Tanaka is a professor at the Department of Electrical Engineering & Information Systems Graduate School of Engineering, University of Tokyo. He received his Ph.D. in electronic engineering from the University of Tokyo in 1989. In 1992, he joined Bell Communications Research (Bellcore) at Red Bank, New Jersey, as a visiting research scientist. Since 1994, he has been at the University of Tokyo as an associate professor and professor.

Dr. Tanaka's main research field is spin electronics ("spintronics"), in which the spin degrees of freedom are used in artificially synthesized materials. Among the areas of his specific research are epitaxial growth, structural characterizations, electronic/optical/magnetic/spin-related properties (in particular, spin-dependent transport and mageto-optical properties), and device applications of various new structures. His research on structures and devices includes ferromagnetic metal / semiconductor hybrid structures, III-V-based magnetic semiconductors and their heterostructures, group-IV-based magnetic semiconductors, ferromagnetic nanoparticles and semiconductor hybrid heterostructures, delta doping of magnetic impurities in semiconductor heterostructures, and new spin transistors (e.g., spin-MOSFET) and reconfigurable logic devices.

Enge G. Wang
Peking University,
Beijing, P. R. China

Professor Enge G. Wang is a professor of physics at Peking University and an academician at the Chinese Academy of Sciences.

Dr. Wang's research focuses on surface physics; the approach is a combination of atomistic simulation of nonequilibrium growth, chemical vapor deposition of light-element nanomaterials, and water behaviors in confinement system. He and his coworkers also predicted a three-dimensional Ehrlich-Schwoebel barrier, which attracted News and Views in Nature (June 2002). Another contribution is the model proposal and experimental validation of a true upward atomic diffusion. This was reported in Physics News Update in June 2003 and News and Views in Nature as well as Science Week in June 2004.

His work on water-surface coupling and the strength of hydrogen bonds at the interfaces provides a fundamental understanding of water on surface at the molecular level.

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