ISSN No. : 2321-9653

iJRASET

International Journal for Research in Applied Science & Engineering Technology

IJRASET is indexed with Crossref for DOI-DOI : 10.22214

Website : www.ijraset.com, E-mail : ijraset@gmail.com

ISRA Journal Impact Factor: 7.429

45.98 INDEX COPERNICUS

THOMSON REUTERS Researcher ID: N-9681-2016

10.22214/IJRASET

TOGETHER WE REACH THE GOAL SJIF 7.429

Certificate

It is here by certified that the paper ID : IJRASET82891, entitled

Comparative Analysis of PI, PID, and PSO-PID Controllers for Charging Lithium-Ion Batteries

by

E. Surya Vamshidhar Rao

after review is found suitable and has been published in Volume 14, Issue V, May 2026

in

International Journal for Research in Applied Science & Engineering Technology

(International Peer Reviewed and Refereed Journal)

Good luck for your future endeavors

Editor in Chief, iJRASET

ISSN No. : 2321-9653

IJRASET

International Journal for Research in Applied Science & Engineering Technology

IJRASET is indexed with Crossref for DOI-DOI : 10.22214

Website : www.ijraset.com, E-mail : ijraset@gmail.com

ISRA Journal Impact Factor: 7.429

45.98 INDEX COPERNICUS

THOMSON REUTERS Researcher ID: N-9681-2016

10.22214/IJRASET

TOGETHER WE REACH THE GOAL SJIF 7.429

Certificate

It is here by certified that the paper ID : IJRASET82891, entitled

Comparative Analysis of PI, PID, and PSO-PID Controllers for Charging Lithium-Ion Batteries

by

T. Murali Krishna

after review is found suitable and has been published in Volume 14, Issue V, May 2026

in

International Journal for Research in Applied Science & Engineering Technology

(International Peer Reviewed and Refereed Journal)

Good luck for your future endeavors

Editor in Chief, iJRASET