Faculty Profile of Dr.P.Christopher Selvin

Dr.P.Christopher Selvin
Professor (On Lien)
Department of Physics

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Research Area

- Luminescence
- Polymer & Nano Electrolytes
- Energy storage devices

Education & Career

Education

M. S.,
Subject: Education Management
Institution : Alagappa University
Affiliated University : Alagappa University
Year of Award : 2010

Ph. D.
Subject : Physics
Institution : Bharathiar University
Affiliated University : Bharathiar University
Year of Award : 1996

M.Phil.,
Subject : Physics
Institution : Bharathiar University
Affiliated University : Bharathiar University
Year of Award : 1990

M. Sc.,
Subject: Physics
Institution : NGM College, Pollachi
Affiliated University : Bharathiar University
Year of Award : 1989

B. Sc.,
Subject: Physics
Institution: NGM College, Pollachi
Affiliated University: Bharathiar University
Year of Award: 1987

Career

At Bharathiar University (Reverse Order)

Professor : 01.12.2016 to Till Date

Past Experience

Associate Professor: 15.05.2011 to 30.11.2016 at N.G.M. College (TN Govt. aided &Affl. to Bharathiar University), Pollachi, Tamil Nadu, India

Assistant Professor (selection grade): 01.01.2009 to 15.05.2011 at N.G.M. College (TN Govt. aided &Affl. to Bharathiar University), Pollachi, Tamil Nadu, India

Lecturer: 01.11.1996 to 01.01.2009 at N.G.M. College (TN Govt. aided &Affl. to Bharathiar University), Pollachi, Tamil Nadu, India

Visiting Faculty, M.Tech –Nanotechnology: June. 2007 to May. 2008 at Anna University, Coimbatore, India

Lecturer in Physics: Jan. 1996 to Oct. 1996 at Karunya Institute of Technology, Coimbatore, India

Awards

Membership

Professional Bodies

Member
Life member: Luminescence society of India
Period: April 1993 to Till date

Member
Life member: Indian Association for Physics Teachers
Jan 2006 to Till date

Visits

Country Visited : China
Duration of Visit : August 2018
Purpose of Visit : 16th Asian Conference on Solid State Ionics (ACSSI-2018) at Shanghai

Country Visited : UAE
Duration of Visit : Januray 2018
Purpose of Visit : University Representative for the Conduct of School of Distance Education University Examinations

at Dubai

Collaborators

Others

Projects

Funded Projects(National Level)

- Ongoing - 01
- Completed - 03

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1. BRNS, DAE

Title of the project: Rare Earth Doped, Perovskite based Nanophosphors for White LED Applications

Funding Agency: Board of Research in Nuclear Sciences (BRNS), Department of Atomic Energy (DAE) India

Amount: Rs. 26,05,148

Duration: April 2013 - September 2017

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2. UGC

Title of the project: In search of a thin film nanoelectrolyte for lithium ion batteries

Funding Agency: University Grants Commission, India

Amount: Rs. 2,69,800

Duration: June 2012 - June 2015

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3. BRNS, DAE

Title of the project: Natural Background Radiation Survey in and around (30km radius) Kudankulam Nuclear Power Project site

Funding Agency: Board of Research in Nuclear Sciences (BRNS), Department of Atomic Energy (DAE) India

Amount: Rs. 21,08,000

Duration: September 2004 - August 2007

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1. DST – SERB

Title of the project : Thirst for efficient anode materials for sodium ion batteries and all solid device assembly (A minor substitution to Li ion batteries)

Funding Agency : DST – SERB, India

Amount : Rs. 41,14,255

Duration : December 2020 - November 2023

Consultancy Projects

- Ongoing
- Completed

Research Guidance

- Post Doc.
- Ph.D.
- M.Phil.
- M.Sc.

Ongoing

Title

Name

Completed

Title

Name

Ongoing

Sample Data.

Completed-08

L. Sampath Kumar
Title of the thesis: Crafting tamarind seed polysaccharide biopolymer electrolytes for lithium ion batteries
Year of award: 2019

P. Perumal
Title of the thesis: Development of safety reinforced biopolymer electrolytes based on pectin polysaccharide for all solid state lithium ion batteries
Year of award: 2019

P. Sivaraj
Title of the thesis: Design and modification of nanostructured Li2FeSiO4/C cathode towards the enhancement of energy storage performance in advanced lithium ion batteries
Year of award: 2019

K. Somasundaram
Title of the thesis: Electroluminescence and photoluminescence studies on transition metal and rate earth ions doped metal oxide nanophosphors for solid state lighting
Year of award: 2019

K. Kandaswamy
Title of the thesis: Tailoring of Antimony Sulfide Non-Stoichiometric Thinfilms by Bismuth incorporation for Photo Voltaic Applications
Year of award: 2017

K.P. Abhilash
Title of the thesis: An Integrated Study on the Ionic Migration Across the Nano LLTO/LFP-C Interface for all Solid State Batteries
Year of award: 2016

H. Nithya
Title of the thesis: Characterization of Polymer electrolyte poly(Epichlorohydrin-etheleneoxide): LiClO4
Year of award: 2011

Sakunthala
Title of the thesis: Synthesis and electrochemical studies of vanadium and manganese based cathode materials for rechargeable lithium batteries
Year of award: 2011

Ongoing

Sample Data.

Completed-14

T. Kiruthika
Title of the thesis: Biopolymer assisted spinel zinc ferrites nano anode material for lithium ion batteries
Year of award: 2019

B. Shanmugapriya
Title of the thesis: Preparation and characterization of PVdF/PAN/LiClO4/LLTO nanocomposite polymer electrolytes for lithium polymer batteries
Year of award: 2019

P. Ranjani
Title of the thesis: Study on Mg-ion conducting biopolymer electrolytes based on tamarind seed polysaccharide for magnesium ion batteries
Year of award: 2018

G. G. Soundarya
Title of the thesis: Impact of calcination temperature on structural and electrical
properties of Li2FeSiO4-C composite nano cathode material for Lithium Ion Batteries
Year of award: 2016

U. Raghavi
Title of the thesis: Photoluminescence properties of pure and Dy3+ doped Ga2O3 nanophosphors for w-LED applications
Year of award: 2016

P. Sivaraj
Title of the thesis: Preparation and characterization of spin-coated LLTO thinfilm nano-electrolyte for rechargeable Lithium ion Batteries
Year of award: 2014

M. Padmasheela
Title of the thesis: Structural optical morphological and conductivity studies of pure and Samarium doped LLTO nano-crystalline electrolyte for rechargeable Lithium ion Batteries
Year of award: 2014

M. Ancy Martina
Title of the thesis: Structural optical morphological and conductivity studies of pure and Cerium doped LLTO nano-crystalline electrolyte for rechargeable Lithium ion Batteries
Year of award: 2014

V. Sulochana
Title of the thesis: Growth and characterization of pure and doped Al2O3 crystals
Year of award: 2014

K. Somasundaram
Title of the thesis: Investigations of Lithium Lanthanum Titanate (LLTO) nano-Electrolyte and Lithium ion Phosphate (LFP/C) nano-cathode interface for Lithium ion Batteries
Year of award: 2012

S. Mahalakshmi
Title of the thesis: Investigations of LiFePO4/C nano-crystallite cathode materials for Lithium ion Batteries
Year of award: 2012

S. Kalaivani
Title of the thesis: Structural and Optical properties of pure and Mn2+ doped CdS nano-crystalline thinfilms for solar cell applications
Year of award: 2011

K. P. Abhilash
Title of the thesis: Investigations of Pure and Silver doped Lithium Lanthanum Titanate (LLTO) nano-crystalline Electrolytes for Rechargeable Batteries
Year of award: 2010

A. Neelaveni
Title of the thesis: Characterization of PVAc:PEG blend polymer electrolyte for lithium ion polymer Batteries
Year of award: 2008

Ongoing

Sample Data.

Completed-02

A. Rifansha
Title of the thesis: Synthesis and analysis of SnO2 anode for Lithium ion batteries
Year of award: 2020

P. Soundarya
Title of the thesis: Effect of calcination temperature on Physicochemical properties of SnO2nanoparticles
Year of award: 2020

Research Publication

- International
- National
- Patents
- Conferences
- Books/Chapters
- Database

Reverse Chronological Order

2021

79. Fine-tuning of stannic oxide anodes' material properties through calcination
D. Lakshmi, M. Infanta Diana, B. Nalini, G. G. Soundarya, P. Priyanka, S. Jayapandi, and P. Christopher Selvin
Journal of Materials Science: Materials in Electronics volume 32, 27384–27397 (2021)

78. A short investigation on LiMn2O4 wrapped with MWCNT as composite cathode for lithium-ion batteries
P. Perumal, K. P. Abhilash, P. Christopher Selvin, Zdenek Sofer
Bull Mater Sci 44, 243 (2021)

77. Physical and Interfacial Studies on Li0.5La0.5TiO3- Incorporated Poly(ethylene oxide)-Based Electrolytes for
All-Solid-State Lithium Batteries
Swamickan Sathya, Sivaraj Pazhaniswamy, P. Christopher Selvin, S. Vengatesan, and A. Manuel Stephan
Energy & Fuels 35, 13402-13410 (2021)

76. Investigations on Na-ion conducting electrolyte based on sodium alginate biopolymer for all-solid-state sodium-ion
batteries
M. Infanta Diana, P. Christopher Selvin, S. Selvasekarapandian, M. Vengadesh Krishna
Journal of Solid State Electrochemistry, 1-12 (2021)

75. Impact of lithium triflate (LiCF3SO3) salt on tamarind seed polysaccharide-based natural solid polymer electrolyte for
application in electrochemical device
L. Sampath Kumar, P. Christopher Selvin, S. Selvasekarapandian
Polymer Bulletin, 78, 1797-1819 (2021)

74. Physical and Interfacial Studies on Li0.5La0.5TiO3- Incorporated Poly(ethylene oxide)-Based Electrolytes for
All-Solid-State Lithium Batteries
Swamickan Sathya, Sivaraj Pazhaniswamy, P. Christopher Selvin, S. Vengatesan, A. Manuel Stephan
Energy & Fuels (2021)

73. Free-standing, high Li-ion conducting hybrid PAN/PVdF/LiClO4/Li0.5La0.5TiO3 nanocomposite solid polymer
electrolytes for all-solid-state batteries
P. Sivaraj, K. P. Abhilash, B. Nalini, P. Perumal, P. Christopher Selvin
Journal of Solid State Electrochemistry, 25, 905-917 (2021)

72. Prediction Clue on the Fading Capacity of Multi-Walled Carbon Nanotube-Decorated Li2(Fe1−xTix) SiO4/C
High-Performance Cathode Materials
Sivaraj Pazhaniswamy, Abhilash Karuthedath Parameswaran, Nalini Balakrishnan, Sunkulp Goel, Zdeněk Sofer,

Sudheer Kumar Yadav, and Christopher Selvin Panneerselvam
Energy Fuels, 35, 8321−8333 (2021)

2020

71. Performance Enhancement of PVDF/LiClO4 Based Nanocomposite Solid Polymer Electrolytes via Incorporation of Li0.5La0.5TiO3 Nano Filler for All-Solid-State Batteries.
Pazhaniswamy Sivaraj, Karuthedath Parameswaran Abhilash, Balakrishnan Nalini, Pandurangam Perumal, Kalimuthu Somasundaram, Paneerselvam Christopher Selvin
Macromolecular Research 28, 739-750 (2020)

70. Compound semiconducting SnSb alloy anodes for Li ion batteries: effect of elemental composition of Sn–Sb.
D Lakshmi, S Jayapandi, B Nalini, P Christopher Selvin
Semiconductor Science and Technology 35, 045008 (2020)

69. Tamarind seed polysaccharide biopolymer-assisted synthesis of spinel zinc iron oxide as a promising alternate anode material for lithium-ion batteries.
P Perumal, T Kiruthika, P Sivaraj, D Lakshmi, P Christopher Selvin
Journal of Materials Science: Materials in Electronics 31, 10593-10604 (2020)

68. Red algae-derived k-carrageenan-based proton-conducting electrolytes for the wearable electrical devices.
P Perumal, P Christopher Selvin
Journal of Solid State Electrochemistry 24, 2249-2260 (2020)

67. Mg-ion conducting electrolytes based on chitosan biopolymer host for the rechargeable Mg batteries.
P Adlin Helen, P Perumal, P Sivaraj, M Infanta Diana, P Christopher Selvin
Materials Today: Proceedings (2020)

66. Green synthesized spinel lithium titanate nano anode material using Aloe Vera extract for potential application to lithium ion batteries.

P Perumal, P Sivaraj, KP Abhilash, GG Soundarya, P Balraju, P Christopher Selvin

Journal of Science: Advanced Materials and Devices 5, 346-353 (2020)

65. Role of Cu, Ti and Ce dopants in SnSb matrix as Li-ion battery anodes.

D Lakshmi, M Infanta Diana, B Nalini Balakrishnan, P Christopher Selvin.

Materials Today: Proceedings (2020)

64. A correlative study on electrochemical and optical properties of LLZO (Li7La3Zr2O12) garnet electrolyte.

K Ajith, P Christopher Selvin, KP Abhilash, P Sivaraj, B Nalini, GG Soundarya.

Materials Today: Proceedings (2020)

63. Effects of bi-dopants Ni and Fe on tin antimonide alloy anodes: physico and electrochemical studies.

D Lakshmi, B Nalini, S Jayapandi, P Christopher Selvin

Journal of Physics D: Applied Physics 54, 105503 (2020)

62. Insight into cations substitution on structural and electrochemical properties of nanostructured Li2FeSiO4/C cathodes.

Pazhaniswamy Sivaraj, Karuthedath Parameswaran Abhilash, Balakrishnan Nalini,

Paneerselvam Christopher Selvin, Sunkulp Goel, Sudheer Kumar Yadav

Journal of the American Ceramic Society 103, 1685-1697 (2020)

61. Augmented conductivity in Li3xLa2/3−xTiO3 nanoparticles: all-solid-state Li-ion battery applications.

D Lakshmi, B Nalini, S Jayapandi, P Christopher Selvin.

Journal of Materials Science: Materials in Electronics 31, 1343-1354 (2020)

2019-1994

60. Investigations on The Effect Of Sm3+ Doping on The Electrochemical Performance of The Li2FeSiO4/C

Nanocomposite Cathode Material for Lithium Ion Batteries.

P Sivaraj, KP Abhilash, P Christopher Selvin, B Nalini

Materials Today: Proceedings 8, 346-351 (2019)

59. Impact of lithium chlorate salts on structural and electrical properties of natural polymer electrolytes for all solid state lithium polymer batteries.
P. Perumal, S. Selvasekarapandian, K. Abhilash, P. Sivaraj, R. Hemalatha, P. Selvin
Vacuum 159, 277-281 (2019)

58. Plasticizer incorporated, novel eco-friendly bio-polymer based solid bio-membrane for electrochemical clean energy applications.
P Perumal, P Christopher Selvin, S Selvasekarapandian, P Sivaraj, KP Abhilash, V Moniha, R Manjula Devi
Polymer Degradation and Stability 159, 43-53 (2019)

57. Structural and Electrical Properties of Bio-polymer Pectin with LiClO4 Solid Electrolytes for Lithium Ion Polymer Batteries.
P Perumal, P Christopher Selvin, S Selvasekarapandian, P Sivaraj
Materials Today: Proceedings 8, 196-202 (2019)

56. Synthesis and characterization of biopolymer electrolyte based on tamarind seed polysaccharide, lithium perchlorate and ethylene carbonate for electrochemical applications.
L Sampathkumar, P Christopher Selvin, S Selvasekarapandian, P Perumal, R Chitra, M Muthukrishnan
Ionics 25, 1067-1082 (2019)

55. Lanthanide ion induced phase decomposition of tetragonal CaWO4.
K Somasundaram, Chandresh Kumar Rastogi, Indrani Roy, P Christopher Selvin, V Sudarsan.
Materials Research Bulletin 113, 133-140 (2019)

54. Study on Mg-ion conducting solid biopolymer electrolytes based on tamarind seed polysaccharide for magnesium ion batteries.
P Perumal, KP Abhilash, P Sivaraj, P Christopher Selvin
Materials Research Bulletin 118, 110490 (2019)

53. Preparation and characterization of proton-conducting polymer electrolyte based on PVA, amino acid proline, and NH4Cl and its applications to electrochemical devices.

R Hemalatha, M Alagar, S Selvasekarapandian, B Sundaresan, V Moniha, G Boopathi, P Christopher Selvin

Ionics 25, 141-154 (2019)

52. Bio-host pectin complexed with dilithium borate based solid electrolytes for polymer batteries.

P Perumal, P Christopher Selvin, S Selvasekarapandian, KP Abhilash

Materials Research Express 6, 115513 (2019)

51. Correlation study on temperature dependent conductivity and line profile along the LLTO/LFP-C cross section for all solid-state lithium-ion batteries.

KP Abhilash, P Christopher Selvin, B Nalini, Rajan Jose, Xia Hui, Hendry Izaac Elim, MV Reddy

Solid State Ionics 341, 115032 (2019)

50. Structure, dielectric, and temperature-dependent conductivity studies of the Li2FeSiO4/C nano cathode material for lithium-ion batteries.

P Sivaraj, KP Abhilash, B Nalini, P Balraju, Sudheer Kumar Yadav, S Jayapandi, P Christopher Selvin

Ionics 25, 2041–2056 (2019)

49. Electrochemical analysis of the carbon-encapsulated lithium iron phosphate nanochains and their high-temperature conductivity profiles.

KP Abhilash, P Christopher Selvin, B Nalini, Hui Xia, Stefan Adams, MV Reddy

ACS omega 3, 6446-6455 (2018)

48. Characterization of biopolymer pectin with lithium chloride and its applications to electrochemical devices.

P Perumal, P Christopher Selvin, S Selvasekarapandian

Ionics 24, 3259-3270 (2018)

47. A study on blend polymer electrolyte based on poly (vinyl alcohol)-poly (acrylonitrile) with magnesium nitrate for magnesium battery.

R Manjuladevi, S Selvasekarapandian, M Thamilselvan, R Mangalam, S Monisha, P Christopher Selvin.

Ionics 24, 3493-3506 (2018)

46. Study on the influences of calcination temperature on structure and its electrochemical performance of Li2FeSiO4/C nano cathode for Lithium Ion Batteries.

P Sivaraj, B Nalini, KP Abhilash, D Lakshmi, P Christopher Selvin, P Balraju.

Journal of Alloys and Compounds 740, 1116-1124 (2018)

45. Tamarind seed polysaccharide biopolymer membrane for lithium-ion conducting battery.

L Sampath Kumar, P Christopher Selvin, S Selvasekarapandian, R Manjuladevi, S Monisha, P Perumal

Ionics 24, 3793-3803 (2018)

44. Lithium ion conducting biopolymer electrolyte based on pectin doped with Lithium nitrate.

R Manjuladevi, P Christopher Selvin, S Selvasekarapandian, R Shilpa, V Moniha

AIP conference proceedings 1942, 140075 (2018)

43. Study of proton-conducting polymer electrolyte based on K-carrageenan and NH4SCN for electrochemical devices.

P Christopher Selvin, P Perumal, S Selvasekarapandian, S Monisha, G Boopathi, MV Leena Chandra

Ionics 24, 3535-3542 (2018)

42. Preparation and characterization of blend polymer electrolyte film based on poly(vinyl alcohol)-poly(acrylonitrile)/MgCl2 for energy storage devices.

R Manjuladevi, M Thamilselvan, S Selvasekarapandian, P Christopher Selvin, R Mangalam, S Monisha

Ionics 24, 1083-1095 (2018)

41. Blue electroluminescence from ZnGa2O4: Eu powder samples.
K Somasundaram, KG Girija, P Christopher Selvin, V Sudarsan, RM Kadam, RK Vatsa
Journal of Luminescence 185, 145-150 (2017)

40. Investigations on the influence of Sm3+ ion on the nano TiO2 matrix as the anode material for lithium ion batteries.
KP Abhilash, P Christopher Selvin, B Nalini, Rajan Jose, R Vijayaraghavan, BVR Chowdari, S Adams, MV Reddy
Journal of Alloys and Compounds 710, 205-215 (2017)

39. Fabrication and electrochemical evaluation of the lithium battery, li0.5la0.5tio3/lifepo4-c interface.
KP Abhilash, P Christopher Selvin, B Nalini, MV Reddy
Pattimura Proceeding: Conference of Science and Technology 1, 011-024 (2017)

38. Study of the temperature dependent transport properties in nanocrystalline lithium lanthanum titanate for lithium ion batteries.
KP Abhilash, P Christopher Selvin, B Nalini, K Somasundaram, P Sivaraj, A Chandra Bose
Journal of Physics and Chemistry of Solids, 91, 114-121, 2016.

37. Accomplishment of highly porous-lithium lanthanum titanate through microwave treatment.
D Lakshmi, B Nalini, KP Abhilash, P Christopher Selvin
AIP Conference Proceedings 1731, 050079 (2016)

36. Structural and optical characterization of terbium doped ZnGa2O4 thin films deposited by RF magnetron sputtering.
K Somasundaram, KG Girija, V Sudarsan, P Christopher Selvin, RK Vatsa
AIP Conference Proceedings 1731, 080081 (2016)

35. Defect luminescence and lattice strain in Mn2+ doped ZnGa2O4.
K Somasundaram, KP Abhilash, V Sudarsan, P Christopher Selvin, RM Kadam.

Physica B: Condensed Matter 491, 79-83 (2016)

34. Synthesis and characterization of thermally evaporated (Bi, Sb)2S3 thin films.

K Kandaswamy, P Christopher Selvin, B Nalini, I Mohamed Abdulla, KP Abhilash

Journal of Optoelectronics and Advanced Materials 17, 145-150 (2015)

33. Investigation on spin coated LLTO thin film nano-electrolytes for rechargeable lithium ion batteries.

KP Abhilash, P Sivaraj, P Christopher Selvin, B Nalini, K Somasundaram.

Ceramics International, 41, 13823-13829, 2015.

32. Investigations on pure and Ag doped lithium lanthanum titanate (LLTO) nanocrystalline ceramic electrolytes for rechargeable lithium-ion batteries.

KP Abhilash, P Christopher Selvin, B Nalini, P Nithyadharseni, BC Pillai

Ceramics International 39, 947-952 (2013)

31. Structural and Optical Properties of Pure and Mn2+ Doped CdS Nanocrystalline Thin Films Prepared by Chemical Bath Deposition.

KP Abhilash, S Kalaivani, P Christopher Selvin, B Nalini, K Kandaswamy, K Somasundaram

Asian Journal of Chemistry 25, S179-S184 (2013)

30. Synthesis of Li(1+x)V3O8 by chemical route and its characterization

Selvasekarapandian Subramanian, Sakunthala Ayyasamy, P Christopher Selvin, MV Reddy, BVR Chowdari,

Nithya Heller, Arunkumar Dorai, Hema Muthusamy

Journal of nanoscience and nanotechnology 12, 737-742 (2012)

29. Effect of propylene carbonate and dimethylformamide on ionic conductivity of P(ECH-EO) based polymer electrolyte.

H Nithya, S Selvasekarapandian, P Christopher Selvin, D Arun Kumar,

Junichi Kawamura
Electrochimica acta 66, 110-120 (2012)

28. Laser Raman and conductivity studies of plasticized polymer electrolyte P(ECH-EO):propylenecarbonate:γ-butyrolactone:LiClO4.
H Nithya, S Selvasekarapandian, P Christopher Selvin, D Arun Kumar, M Hema,
Junichi Kawamura
Journal of Solid State Electrochemistry 16, 1791-1797 (2012)

27. Energy storage studies of bare and doped vanadium pentoxide, (V1.95M0.05)O5, M = Nb, Ta, for lithium ion batteries.
A Sakunthala, MV Reddy, S Selvasekarapandian, BVR Chowdari, P Christopher selvin
Energy & Environmental Science 4, 1712-1725 (2011)

26. Structural and ionic conductivity studies on P(ECH-EO):γ-BL:LiClO 4 plasticized polymer electrolyte.
Hellar Nithya, S Selvasekarapandian, P Christopher Selvin, Dorai Arun Kumar, Muthusamy Hema.
Ionics 17, 587-593 (2011)

25. Characterization of nanocomposite polymer electrolyte based on P (ECH-EO)
H Nithya, S Selvasekarapandian, P Christopher Selvin, D Arun Kumar, M Hema, D Prakash
Physica B: Condensed Matter 406, 3367-3373 (2011)

24. Synthesis and Characterization of P (ECH-EO) Based Solid Polymer Electrolyte for Lithium-Ion Rechargeable Battery.
Nithya Hellar, Selvasekarapandian Subramanian, Arun Kumar Dorai, Sakunthala Ayyasamy, Hema Muthusamy,
Junichi Kawamura, Baskaran Rangasami, PC Selvin.
ECS Meeting Abstracts 381 (2010)

23. Preparation, characterization, and electrochemical performance of lithium trivanadate rods by a surfactant-assisted polymer precursor method for lithium batteries.
A Sakunthala, MV Reddy, S Selvasekarapandian, BVR Chowdari, P Christopher Selvin
The Journal of Physical Chemistry C 114, 8099-8107 (2010)

22. Synthesis of compounds, Li(MMn11/6)O4 (M = Mn1/6, Co1/6, (Co1/12Cr1/12), (Co1/12Al1/12), (Cr1/12Al1/12)) by polymer precursor method and its electrochemical performance for lithium-ion batteries.
A Sakunthala, MV Reddy, S Selvasekarapandian, BVR Chowdari, P Christopher Selvin
Electrochimica acta 55, 4441-4450 (2010)

21. Observation of NOx species in a N2/O2/H2O microwave discharge plasma: A laboratory simulation of Earth's atmosphere
Toshihiro Fujii, Keiichiro Iwase, P. Christopher Selvin.
Journal of Geophysical Research: Atmospheres 108 (2003)

20. Thermally stimulated luminescence, optical absorption and EPR studies on kyanite crystals
SO Souza, PC Selvin, S Watanabe
Journal of luminescence 102, 575-580 (2003)

19. Design and performance of an atmospheric pressure inlet system for lithium ion attachment mass spectrometry.
P Christopher Selvin, Keiichiro Iwase, Toshihiro Fujii
Analytical chemistry 74, 2053-2057 (2002)

18. Mass spectrometric analysis of a N2/H2 microwave discharge plasma.
Toshihiro Fujii, Keiichiro Iwase, P Christopher Selvin.
International Journal of Mass Spectrometry 216, 169-175 (2002)

17. Structures, potential energy curves, and torsional barrier heights for selected polychlorinated biphenyls:

A density functional theory study.
Sundaram Arulmozhiraja, P Christopher Selvin, Toshihiro Fujii
The Journal of Physical Chemistry A 106, 1765-1769 (2002)

16. Mass spectrometric analysis of ionic and neutral species produced in an N2/O2 microwave discharge plasma
P Christopher Selvin, Keiichiro Iwase, Toshihiro Fujii.
Journal of Physics D: Applied Physics 35, 675 (2002)

15. Analysis of Hydronitrogen Species Generated by a Microwave Discharge in (N2H4)/He
Toshihiro Fujii, Christopher P Selvin, Michel Sablier, Keiichiro Iwase
The Journal of Physical Chemistry A 106, 3102-3105 (2002)

14. Thermoluminescence and EPR studies on natural petalite crystals
SO Souza, JFD Chubaci, P Christopher Selvin, MD Sastry, S Watanabe
Journal of Physics D: Applied Physics 35, 1562 (2002)

13. Determination of the ionic and neutral chemical components of a H2O microwave discharge plasma
Toshihiro Fujii, P Christopher Selvin, Keiichiro Iwase
Chemical physics letters 360, 367-373 (2002)

12. Mass spectrometric studies of ionic products in CF4/He and CF4/O2/He microwave discharge plasmas
Keiichiro Iwase, P Christopher Selvin, Gen Sato, Toshihiro Fujii
Journal of Physics D: Applied Physics 35, 1934 (2002)

11. Lithium ion attachment mass spectrometry: Instrumentation and features
P Christopher Selvin, Toshihiro Fujii
Review of Scientific Instruments 72, 2248-2252 (2001)

10. Lithium ion attachment mass spectrometry for on-line analysis of trace components in air: direct introduction
Toshihiro Fujii, P Christopher Selvin, Michel Sablier, Keiichiro Iwase
International Journal of Mass Spectrometry 209, 39-45 (2001)

9. Thermoluminescence and electron paramagnetic resonance (EPR) studies of mineral chrysocolla (dioptase)
P Christopher Selvin, S Watanabe, JS Ayala-Arenas
Radiation Physics and Chemistry 61, 531-533 (2001)

8. Lithium ion attachment mass spectrometry for on-line analysis of trace components in air: direct introduction.
Toshihiro Fujii, P Christopher Selvin, Michel Sablier, Keiichiro Iwase
International Journal of Mass Spectrometry 209, 39-45 (2001)

7. Optical absorption, photoluminescence, and thermally stimulated luminescence of CsCl: Tb crystals
P Christober Selvan, S Selvasekarapandian, P Neelamegam
physica status solidi (b) 194, 747-756 (1996)

6. Thermoluminescence studies on Sr2+ doped cesium halides and their application to dosimetry
S Selvasekarapandian, P Christober Selvan, P Neelamegam
Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms
111, 290-296 (1996)

5. Thermoluminescence and optical studies on CsBr: Ca2+ and CsCl: Ca2+ crystals and its application to dosimetry
S Selvasekarapandian, P Neelamegam, P Christopher Selvan
physica status solidi (a) 48, 311-320 (1995)

4. Thermoluminescence and optical studies on chromium-doped caesium chloride crystals
P Christopher Selvan, S Selvasekarapandian
Journal of Physics: Condensed Matter 7, 5395 (1995)

3. Thermoluminescence studies on CsCl: Ni crystals
P Christopher Selvan, S Selvasekarapandian
Materials chemistry and physics 37, 94-96 (1994)

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Alumini Reflections: