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WOS AAZ-6508-2021

NPTEL Dr. Giable George

OFFICE Department of Chemistry, St.

George College, Aruvithura



Dr. Giable George Msc, PhD,

PDF

Associate Professor & HoD · Department of Chemistry

PROFILE

Dr. Giable George is an accomplished researcher and academic specializing in inorganic chemistry, nanomaterials, and non-toxic cool pigments. She has served as Principal Investigator on major government-funded research projects from DST and KSCSTE while actively mentoring undergraduate and postgraduate students. Her honors include the prestigious Kerala Young Scientist Award (2012), UGC Kothari Post Doctoral Fellowship, and DST-Fast Track Young Scientist Fellowship.

APPOINTMENT

Joined 04 June 2012 · **Teaching** 14.3 years · **Research** 21 years

SPECIALISATION

Inorganic material chemistry · Functional nanomaterials · Nano composites

RESEARCH INTERESTS

Inorganic chemistry · Advanced functional nanomaterials · Polymer-inorganic nanocomposites · Sustainable material design.

COURSES HANDLED

Inorganic Chemistry · Organic Chemistry · Bioinorganic Chemistry and Computational Chemistry for both undergraduate (UG) and postgraduate (PG) students.

LABORATORIES

Inorganic Chemistry · Organic Chemistry

QUALIFICATIONS

Ph.D — Chemistry

2011

CSIR-NIIST, Trivandrum, CUSAT

Thesis: Synthesis, Characterization and Optical Properties of Rare Earth Based Non-toxic Inorganic Pigments

EXPERIENCE

Associate Professor

04 June 2024 –

St. George College, Aruvithura · Teaching

Present

Adjunct faculty

2019

Advanced Molecular Material Research Center (AMMRC), M. G University, Kottayam · Visiting / Adjunct

Assistant Professor

01 September 2016 –

St. George College, Aruvithura · Teaching

03 June 2024

Assistant Professor

K E College, Mannanam · Teaching

June 2012 – 31 August
2016

Dr. Giable George brings extensive professional experience as an academician and researcher, having served as Principal Investigator on major government-funded projects from DST and KSCSTE while winning prestigious accolades like the Kerala Young Scientist Award (2012). Alongside her research background, she has dedicated over a decade to higher education by mentoring undergraduate and postgraduate students, leading advanced chemistry laboratories, and contributing to university curriculum development.

RESPONSIBILITIES

Question Paper Scrutinizer

23 October 2024

St. Thomas College Pala

Deputy Chairperson

11 June 2024

IV Semester MSc Chemistry Examination, M G University, Kottayam

Coordinator

2023 – Present

IPR Cell

Coordinator

2023 – Present

Consultancy Services

Head of the Department

2022 – Present

Chemistry Department

Coordinator

2017 – 2019

Placement Cell

Board of studies member

2012 – Present

M.Sc & B.Sc Examination, Mahatma Gandhi University

RESEARCH GUIDANCE

Nibu P G — “Synthesis of non-toxic NIR reflective mixed oxide/PMMA nanocomposites”

Completed, 2012-2016

DST-FIST Project · Supervisor

JOURNAL PAPERS

- [1] Giable George, “Epoxied-assisted sol-gel synthesis of $\text{SrxCe}_{1-x}\text{ZrO}_{3.5}$ nano pigments,” *Techniques - Sciences - Methodes, ASTEE*, vol. 10, no. 5, pp. 214, 2026. ISSN 02997258. SCOPUS IF 0.13
- [2] Giable George, “Sustainable inorganic cool pigments based on Tungsten doped $\text{FeZrO}_{3.5}$,” *International Journal of Scientific Research in Engineering and Management, IndoSpace Publications*, vol. 09, no. 04, 2025. ISSN 2582-3930. PEER REVIEWED IF 8.659
- [3] Giable George, “In-situ growth of Iron doped Cerium Zirconium nanoparticles onto PMMA nanosheet to form colored nanocomposites with enhanced performance under visible light irradiation,” *Journal of Emerging Technologies and Innovative Research, IJPUBLICATION*, vol. 6, no. 3, pp. 227-243, 2019. ISSN 2349-5162. PEER REVIEWED IF 7.95
- [4] Giable George, “EPOXIDE ASSISTED SOL-GEL SYNTHESIS OF MOLYBDENUM DOPED Ce_2SiO_5 NIR REFLECTIVE YELLOW NANO PIGMENTS,” *International refereed multidisciplinary journal of contemporary research, Maaz Publications*, vol. V, no. IV, pp. 47-52, 2017. ISSN 2582-3930. PEER REVIEWED IF 8.659

- [5] Giable George, "The structural and optical study of titanium doped rare earth pigments and coloring application," *Dyes and Pigments*, Elsevier, vol. 112, pp. 81-85, 2015. ISSN 0143-7208. doi: <https://doi.org/10.1016/j.dyepig.2014.06.013>. SCI IF 3.9
- [6] Nibu, P. G, George Giable, "Non-alkoxide sol-gel synthesis of rhombohedral CeZrO_{3.5} nanopowder and its nanocomposite," *International Journal of Multidisciplinary Research Review*, SLAA Publications Private Limited, vol. 1, no. 9, 2015. ISSN 2395-1877. PEER REVIEWED IF 8.16
- [7] Nibu P. G and Giable George, "Pechini type sol-gel synthesis of rare earth based nanopigment with high optical properties," *Research Scholar*, Scholars Association of Kerala, vol. V, no. 4, pp. 221-225, 2015. ISSN 2249-6696. PEER REVIEWED
- [8] Nibu P. G and Giable George, "Preparation and application of mixed metal oxide nanoparticle by polymeric precursor sol-gel method: Pechini method," *New numbers and letters*, K. E College, Mannanam, vol. VI, no. 1, pp. 129-131, 2015. ISSN 2320-8317. PEER REVIEWED
- [9] Giable George, "Design and development of non-toxic alkali metal doped Pr₂Mo₂O₉ Green-Yellow Pigments," *Research Scholar*, Scholars Association of Kerala, vol. IV, no. 2, pp. 68-71, 2014. ISSN 2249-6696. PEER REVIEWED
- [10] Giable George, V. S. Vishnu, and M. L. P. Reddy, "Synthesis, characterization and optical properties of silicon and praseodymium doped Y₆MoO₁₂ compounds: Environmentally benign inorganic pigments with high NIR reflectance," *Dyes and Pigments*, Elsevier, vol. 88, no. 1, pp. 109-115, 2011. ISSN 0143-7208. doi: <https://doi.org/10.1016/j.dyepig.2010.05.010>. SCI IF 3.9
- [11] V.S. Vishnu, Giable George, M. L. P. Reddy, "Effect of molybdenum and praseodymium dopants on the optical properties of Sm₂Ce₂O₇: Tuning of band gaps to realize various color hues," *Dyes and Pigments*, Elsevier, vol. 85, no. 3, pp. 117-123, 2010. ISSN 0143-7208. doi: <https://doi.org/10.1016/j.dyepig.2009.10.012>. SCI IF 3.9
- [12] V.S. Vishnu, Giable George, V. Divya, M. L. P. Reddy, "Synthesis and characterization of new environmentally benign tantalum-doped Ce_{0.8}Zr_{0.2}O₂ yellow pigments: Applications in coloring of plastics," *Dyes and Pigments*, Elsevier, vol. 82, no. 1, pp. 53-57, 2009. ISSN 0143-7208. doi: <https://doi.org/10.1016/j.dyepig.2008.11.001>. SCI IF 3.9
- [13] Sandhya Kumari L, Giable George, P. Prabhakar Rao, and M. L. P. Reddy, "Synthesis and characterization of environmentally benign praseodymium-doped TiCeO₄ pigments," *Dyes and Pigments*, Elsevier, vol. 77, no. 2, pp. 427-431, 2008. ISSN 0143-7208. doi: <https://doi.org/10.1016/j.dyepig.2007.07.007>. SCI IF 3.9
- [14] Giable George, L. Sandhya Kumari, V. S. Vishnu, S. Ananthakumar, M. L. P. Reddy, "Synthesis and characterization of environmentally benign calcium-doped Pr₂Mo₂O₉ pigments: Applications in coloring of plastics," *Journal of Solid State Chemistry*, Elsevier, vol. 181, no. 3, pp. 487-492, 2008. ISSN 0022-4596. doi: <https://doi.org/10.1016/j.jssc.2007.12.024>. SCI IF 3.2
- [15] Giable George, P. Prabhakar Rao, and M. L. P. Reddy, "Synthesis and characterization of CeO₂-TiO₂-Pr₆O₁₁ solid solutions for environmentally benign nontoxic red pigments," *Chemistry Letters*, Chemical Society of Japan, vol. 35, no. 12, pp. 1412-1413, 2006. ISSN 0366-7022. doi: <https://doi.org/10.1246/cl.2006.1412>. SCI IF 1.2

- [16] Giable George, Gisha George, P. Prabhakar Rao and M. L. P. Reddy, "Synthesis and characterization of environmentally benign nontoxic pigments: RE₂Mo₂O₉ (RE = La or Pr)," *Chemistry Letters*, Chemical Society of Japan, vol. 34, no. 12, pp. 1702-1703, 2005. ISSN 0366-7022. doi: <https://doi.org/10.1246/cl.2005.1702>. SCI IF 1.2
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CONFERENCE PAPERS

- [1] P.G Nibu and Giable George, "Non-alkoxide sol-gel synthesis of rare earth based non-toxic inorganic nanopigment," in *International Conference on Advances in Applied Mathematics, Materials Science And Nanotechnology for Engineering and Industrial Applications*, Federal Institute of Science and Technology, Cochin, 7-9 January 2016, 158, PROCEEDINGS.
- [2] P.G Nibu and Giable George, "Epoxide assisted sol-gel synthesis of environmentally benign inorganic nanopigments with high optical properties," in *International Conference on Science, Technology and Applications of Rare Earths (STAR 2015)*, International, Rare earth association of India in association with CSIT-NIIST, Trivandrum, 23-25 April 2015, 17, PROCEEDINGS.
- [3] Giable George and P. G Nibu, "Nanocomposites Derived from Polymers and Inorganic Nanoparticles," in *Frontiers*, National, Research and PG Department of chemistry, St.George College, Aruvithura, 5-6 January 2015, 37, PROCEEDINGS.
- [4] Giable George and Nibu P G, "Preparation and application of metal oxide nanoparticle by polymeric precursor method: Pechini Method," in *UGC Sponsored National Seminar on Chemistry for tomorrow's world*, National, B. K College, Amalagiri, 22-23 January 2015, 31-36, PROCEEDINGS.
- [5] Giable George and Nibu P G, "Properties and application of polymer inorganic nanocomposite," in *UGC sponsored National Seminar on Chemistry for tomorrow world*, National, B. K College, Amalagiri, 22-23 January 2015, 46-51, PROCEEDINGS.
- [6] Giable George, V. S Vishnu and M. L. P Reddy, "Synthesis, characterization and optical properties of silicon and praseodymium doped Y₆MoO₁₂ compounds: Environmentally benign inorganic pigments with high NIR reflectance," in *24th Kerala science congress*, National, KSCSTE, Rubber research institute, Kottayam, 29-31 January 2012, 256, 81-86366-77-6. OTHER KERALA YOUNG SCIENTIST AWARD
- [7] Giable George and M.L.P Reddy, "Synthesis, characterization and optical properties of silicon and praseodymium doped Y₆MoO₁₂ compounds: Environmentally benign inorganic pigments with high NIR reflectance," in *ICAS-2010*, International, Indian Society of Analytical Scientists and CUSAT, KOCHI, 24-27 November 2010, 133, PROCEEDINGS.
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BOOKS & CHAPTERS

- [1] Giable George, "Inorganic metal oxide-polymer nanocomposites for near infra-red (NIR) reflective coating applications," in *Recent trends of innovations in chemical and biological sciences*, Vol-1 ed., Bhumi Publishing, 2022, pp. 7-13. ISBN 978-93-91768-31-7.
- [2] Dr. Giable George, Saritha K M and Bony K John, *INORGANIC CHEMISTRY, Semester-VI, Core Course Chemistry, Mahatma Gandhi University*, 1 ed., Turn Books, 2019, pp. 184. ISBN 978-93-87709-25-6.
- [3] Nibu P. G and Giable George, "Polymeric precursor sol-gel synthesis of rare earth based nano-powder for pigment application," in *Recent Research*, George Abraham (Eds.), Ambadi Publications, 2016, pp. 201-205. ISBN 978-81-926565-2-6.

- [4] Dr. Giable George, Saritha K M and Bony K John, *INORGANIC CHEMISTRY, Semester-VI, Core Course Chemistry, Mahatma Gandhi University*, 1 ed., Prakash Publications, ISBN 978-93-81888-11-7.

CITATION METRICS

467

CITATIONS

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PUBLICATIONS

Source: Google Scholar, as on August 2026

PROJECTS & FUNDING

Synthesis of non-toxic NIR reflective mixed oxide/PMMA nanocomposites

2012-2016, Completed

Funded research project · DST-SERB · Principal Investigator · 24.6 Lakhs

Development of environment friendly rare earth Ce6MoO12 /PMMA based nanocomposites

2012-2015, Completed

Funded research project · KSCSTE · Principal Investigator · 1 Lakh

TRAINING & FDPS

One week Online Professional Certification Programme in LMS for Educators with Special Focus on Online Evaluation

18 May-24 May 2020, 1 week

Workshop · One week Online Professional Certification Programme in LMS for Educators with Special Focus on Online Evaluation · Online · Online

Recent Advances in Inorganic Chemistry

5 March-9 March 2021, 5 Days

Workshop · Department of Chemistry, School of Physical Sciences, & Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMNMTT), School of Education, Central University of Kerala (CUK), Kasaragod · Online

Computational Chemistry

16 December-22 December 2020, 5 Days

FDP · Department of Chemistry & Centre for Research, Baselius College, Kottayam in association with Chemical Research Society of India (CRSI) · Online

Essential software skill training

17 August-28 August 2020, 2 Weeks

FDP · Department of Media Studies, St. George's College, Aruvithura · St. George's College, Aruvithura · Online

MANAGING ONLINE CLASSES AND CO-CREATING MOOCS 3.0

25 July-10 August 2020, 2Weeks

FDP · PMMNMTT · Online

Online Education in Higher Education Institutions

13 July-17 July 2020, 5Days

FDP · Kerala State Higher Education Council (KSHCEC), Thiruvananthapuram · Online

Faculty Development Programme (FDP) on Digital Learning –New Normal Mode

4 September-10 September 2020, 1 Week

FDP · Devaswom Board College, Thalayolaparambu and -HRDC University of Kerala Thiruvananthapuram · Online

Environmental Studies (Interdisciplinary)

3 August-16 August 2021, 2 Weeks

Refresher course · Devaswom Board College, Thalayolaparambu · Online

TALKS & EVENTS

Subject Expert in Guest Lectures Interview

18 May 2022

Panelist · S D College, Kanjirappally

Guest Lecture Interview

03 June 2021

Panelist · S D College, Kanjirappally · Kanjirappally

Intruduction to Computational Chemistry and Computational Calculations

27-28 December 2021

Invited talk · K E College · Mannanam · MSc Students

IIT Workshop

12-13 December 2019

Coordinator · E-Cell-IIT Bombay · St. George College, Aruvithura · PG and UG Students

Computational Chemistry

2019

Invited talk · MSc Students

Computational Chemistry

2018

Resource person · K E College · Mannanam · PG Students

AWARDS & HONOURS

Top Cited Paper Award

2015

Dr. Giable George

Dyes and Pigments Journal

Kerala Young Scientist Award

2012

Dr. Giable George

DST-Fast Track Young Scientist Fellow

2012

Dr. Giable George

DST-Fast Track Young Scientist Fellow

UGC Kothari Post Doctoral Fellow

2011

Dr. Giable George

UGC

MEMBERSHIPS

Breakthrough Science Society

2024

Life Member · Membership no. KL-100470

Kerala Science Academy

Life Member

IJCRT RMS

Life Member · Membership no. 114547

EDITORIAL & REVIEW

Journal of Coatings Technology and Research

2022

Reviewer

Journal of Ceramic Science and Technology

2017

Reviewer

Journal of Coatings Technology and Research

2016

Reviewer

LANGUAGES

Malayalam · English

RESEARCH GUIDE

M. G University, Kottayam