


<b>Name:</b>  <b>Dr. M. Kumar</b>	<b>Photo</b>  			
<b>Designation:</b>	Professor			
<b>Qualification:</b>	M.Sc., M.Phil., Ph.D.			
<b>Area of specialization:</b>	Polymer Composites and nano materials			
<b>Experience:</b>	<b>Industrial Experience</b>		<b>Teaching Experience</b>	
	-		13.2	
<b>Number of workshops / FDP attended:</b>	<b>Number of Workshops</b>		<b>Number of FDPs</b>	
	4		3	
<b>Publications:</b>	<b>Conference</b>		<b>Journal</b>	
	<b>National</b>	<b>International</b>	<b>National</b>	<b>International</b>
	2	5	3	26
<b>Books / Book Chapters</b>				
<b>Patents:</b>	<b>National</b>		<b>International</b>	
	2		0	
<b>Professional Body Membership</b>	IEEE, ACS			
<b>Research</b>	Google Scholar ID: 9ivwgeQAAAAJ Researcher ID: C-9645-2014 Orcid ID: 0000-0001-9282-8726 Scopus ID: 58730128200			
<b>Staff Achievements</b>				

### Educational Qualifications:

Category	Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University	% of Marks / Grades obtained	Class obtained
UG	B. Sc.	Chemistry	2000	National College	Bharathidasan	61.5	I
PG	M. Sc.	Chemistry	2004	Kurinji College of Arts and Science	Bharathidasan	67	I
	M. Phil.	Chemistry	2009	Jamal Mohammed College	Bharathidasan	73	I
Ph.D.	Ph.D.	Chemistry	2014	Anna University	Anna University	<b>HIGHLY COMMENDED</b>	

### Academic Experience:

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
Sri Sai Ram Engineering College	Associate Professor	01.06.2025	Till now		5	
Sri Sai Ram Institute of Technology	Associate Professor	20.09.2023	30.05.2025	1	5	10
Kings Engineering College	Associate Professor	23.08.2019	19.09.2023	4	0	25
Danalakshmi College of Engineering	Associate Professor	03.01.2018	13.08.2019	1	8	10
SRM-Easwari Engineering College	Assistant Professor	27.07.2015	29.12.2017	2	5	2
Arignar Anna Government	Guest Lecturer	02.06.2013	26.07.2015	2	1	24

Arts College						
Imayam Engineering College	Assistant Professor	12.06.2010	23.05.2011		11	11
				<b>13</b>	<b>1</b>	<b>12</b>

### Workshops/Seminars attended: 4

#### FDP/STTP Attended: 3

3. Energy Storage Systems. Sri Sairam Engineering College. 05.02. 2024 to 10.02.2024.
2. The role of teachers in outcome-based education. Kings Engineering College, 27.6.2023 to 28.06.2023.
1. Current trends in chemistry. Easwari Engineering college. 23.08.2021 to 27.07.2021

### Papers presented in International / National Conferences: 6

#### Papers presented in International Conference

3. **Kumar, M** & Tamilarasan, R 2014, „Adsorption studies on the removal of methylene blue using Ca<sup>2+</sup> and Zn<sup>2+</sup> alginate hydrogel beads: A comparative study“, ICGTEPC-2014, International Conference, NIT-Tiruchirapalli, Tiruchirapalli-15.
2. **M. Kumar**, V. Sureshkumar, R. Tamilarasan. 2016. Biosorption of Victoria blue using *Zizyphus oenoplia* seed: Evaluation of modeling, experimental, FTIR and SEM studies. IEEE Proceedings of ICETETS, Kings College of Engineering, Thanjavur, India. 24-26.
1. **Muthaiyan Kumar**, Rengasamy Tamilarasan and Vadivelu Sivakumar, Aniline blue optimization using Zn-Biopolymeric beads encapped with Prosopis Juliflora activated carbon, International Conference on Advanced Polymers for Science and Technology (APST-2016), VIT- Vellore.

#### Papers presented in National Conference

3. **Kumar, M** and Tamilarasan, R, “Kinetics and Equilibrium Studies on Adsorption of dye by Prosopis juliflora bark carbon” UGC- sponsored National Conference, Oral session, December-2012, organized by Presidency College, Chennai.
2. **Kumar, M**, TNSCHE-Sponsored state level Seminar. “Promises and challenges of using nanomaterials in clinical application”, Seethalakshmi Ramaswamy College, Tiruchirapalli.
1. **Kumar, M** & Tamilarasan, R 2011, „Kinetics and equilibrium studies on the adsorption of methylene blue by Prosopis Juliflora bark carbon“, NCAC-2011 (AICTE sponsored Conference), Eswari Engineering College, Chennai.

### Conference/ Symposium Attended: 5

3. **M. Kumar**, N. S. Karthikeyan & C. Ravichandran, 2016. A MINI REVIEW ON NANOBOTS IN HUMAN SURGERY AND CANCER THERAPY, International Journal of Scientific Research and

Modern Education (IJSRME), 222-246.

2. N. S. Karthikeyan, **M. Kumar**, & C. Ravichandran, 2016. PRINCIPLES & TRENDS IN GREEN CHEMISTRY, International Journal of Scientific Research and Modern Education (IJSRME), 222-246.
1. N. S. Karthikeyan, **M. Kumar**, & C. Ravichandran, 2016. A MINI REVIEW – BIODIESEL PRODUCTION AND APPLICATIONS, International Journal of Scientific Research and Modern Education (IJSRME), 222-246.

### Completed / Ongoing Projects: 1

Sl. No	Year	Name of the Scheme	Title of research project	Name of the PI/ Co-investigator	Funding agency	Amount in Rs
1	2017-20	Safety Research Management	Synthesis, Characterization of Nitrogen Donor Extractants for the Separation of Minor Actinides from Lanthanides	Dr. N.S. Karthikeyan Co-Investigators: <b>Dr. M. Kumar</b> Dr. C. Ravichandaran Dr. B. Venkatachalapathy	<b>AERB</b> (CSRP/PR OJ.No.65/ 06/2017)	<b>37.93</b>

### Resource Person: 1

### Patents: 3

### Journal Publications: 26

### Books / Book Chapters: -

### Awards: -

### Online Courses: 6

### Webinar: -

### PUBLICATIONS (Referred International Journals)

24. **M. Kumar**, R. Tamilrasan, Geetha palani, M. Dharmendirakumar, Herri Trilaksanna, A novel adsorbent for the removal of chromium from aqueous solution by *Acacia Fumosa* seed shell activated carbon. Journal of the Indian Chemical Society, 101 (2024) 101330. **Impact Factor: 3.2.**

23. **Kumar Muthaiyan**, Geetha Palani, Herri Trilaksana, M Gurumoorthy, G.K. Ayyadurai & Arumugaprabu Veerasimman. Investigation on ferrite immobilized alginate magnetic nanocomposite beads for the adsorptive removal of Prussian blue. *Anal. Chem. Lett.* 14 (5) 2024 pp 708 – 722. **Impact Factor: 1.0.**
22. Revathi M., Dharmendra Kumar M., Geetha Palani, **Kumar M.**, Herri Trilaksana & Shanmugaraj A. M. Synthesis and characterisation of a novel silica—CaO/ TPA catalyst for biodiesel production. *BioFuels*. [10.1080/17597269.2025.2456409](https://doi.org/10.1080/17597269.2025.2456409). **Impact Factor: 2.2.**
21. M Gurumoorthy, Geetha Palani, Herri Trilaksana & **M Kumar**. The structural, morphological, optical, thermal and magnetic properties of MnFe<sub>2</sub>O<sub>4</sub> nanoparticles. *Anal. Chem. Lett.* 14 (6) 2024 pp 848 – 861. **Impact Factor: 1.0.**
20. R. Manimegalai, S. Sendhilnathan, V. Chithambaram, **M. Kumar** (2023) Experimental investigation on ferrofluid properties of Cd doped Co-Zn ferrites. *Digest Journal of Nanomaterials and Biostructures*, 18, 547-555. **Impact Factor: 0.899.**
19. Nimel Sworna Ross, Ganesh M., M.Belsam Jeba Ananth, **M. Kumar**, 2023 Ritu Rai, Munish Kumar Gupta, Mehmet Erdi Korkmaz, Development and potential use of MWCNT suspended in vegetable oil as a cutting fluid in machining of Monel 400, *Journal of molecular liquids*, 382, 121853. **Impact Factor: 6.633.**
18. R. Tamilarasan, R. Tamilarasan, **M. Kumar**, V.Chithambaram (2022) Senegalia Catechu activated carbon incorporated Ba-alginate composite beads for the removal of Safranin B: modeling studies, *Digest Journal of Nanomaterials and Biostructures*, 17, 2022, p. 1369-1384. **Impact Factor: 0.899.**
17. Padmanaban. R, **Kumar. M**, and Dharmendirakumar. M (2021) Adsorption modeling studies for the removal of rose bengal dye from aqueous solutions using a natural adsorbent perlite, *Indian Journal of Chemical Technology*. 28, 604- 611. **Impact Factor: 0.57.**
16. **M. Kumar**, R. Tamilarasan and G. Vijayakumar, 2019. Synthesis, characterization and experimental studies of nano Zn-Al-Fe<sub>3</sub>O<sub>4</sub> blended alginate/Ca beads for the adsorption of Rhodamin B. *Journal of Polymers and the Environment*. 27 (1), 106-117. **Impact Factor: 3.667.**
15. D. Jayaganes, **M. Kumar**, R. Tamilarasan. 2017. Equilibrium and Modelling Studies for the Removal of Crystal Violet Dye from aqueous solution using eco-friendly activated carbon prepared from Sargassum wightii seaweeds. *Journal of Materials and Environmental Science*. 8(4), 1508-1517. **Impact Factor: 0.23.**
14. D. Jayaganes, **M. Kumar**, R. Tamilarasan. 2017. Preparation of eco-friendly and low-cost activated carbon from Gracilaria corticata seaweeds for the Removal of Crystal Violet Dye from aqueous solution: Equilibrium and Modelling Studies. *Chiang Mai Journal of Science*. 45(2) : 1039-1051. **Impact Factor: 0.523.**
13. **M. Kumar**, V. Sureshkumar, R. Tamilarasan. 2016. Biosorption of Victoria blue using *Zizyphus oenoplia* seed: Evaluation of modeling, experimental, FTIR and SEM studies. *IEEE Proceedings of ICETETS, Kings College of Engineering, Thanjavur, India*. 24-26. 10.1109/ICETETS.2016.7603126
12. M. Bhuvaneshwari, S. Sendhilnathan, **M. Kumar**, R. Tamilarasan, N.V., Giridharan. 2015. Synthesis, investigation of structural and electrical properties of cobalt doped mn-zn ferrite nanocrystalline powders.

Material Letters Poland. 34 (2), 344–353. **Impact Factor: 1.022.** DOI: 10.1515/msp-2016-0046.

11. **M. Kumar**, R. Tamilarasan, G. Arthanareeswaran, & F. Ismail, 2015. „Optimization of methylene blue using  $\text{Ca}^{2+}$  and  $\text{Zn}^{2+}$  bio-polymer hydrogel beads: A comparative study“, *Ecotoxicology and environmental safety*“. Vol. 121, 2015, Pages 164-173. **Impact Factor: 6.291.** doi:10.1016/j.ecoenv.2015.04.007.
- 10 **Kumar M**, Tamilarasan R, Vijayakumar G, Mukeshkumar, P.C & Sendhilnathan, S, 2015. Biosorption of aniline blue from aqueous solution using a novel biosorbent *Zizyphus oenoplia* seeds: Modeling studies, *Polish Journal of Chemical Technology*. 17, 3, 70 - 77. **Impact Factor: 1.125.** DOI: 10.1515/pjct-2015-0052
9. Saranya, R, **Kumar, M**, Tamilarasan, R, Ismail A. F. & Arthanareeswaran, G. 2015, Functionalised activated carbon modified polyphenylsulfone composite membranes for adsorption enhanced phenol filtration, *Journal of Chemical Technology and Biotechnology*, Vol. 91, Issue 3, 2016, Pages 748-761, **Impact Factor: 3.174.** DOI: 10.1002/jctb.4641
8. **Kumar, M** & Tamilarasan, R. 2014, Removal of Victoria Blue using Prosopis juliflora bark carbon: Kinetics and Thermodynamic modeling Studies, *Journal of Material and Environmental Science*, vol. 5, no. 2, pp. 510-519. **Impact Factor: 0.23.**
7. **Kumar, M** & Tamilarasan, R.. 2013, „Modeling studies for the removal of methylene blue from aqueous solution using Acacia Fumosa seed shell activated carbon“, *Journal of Environmental Chemical Engineering*, vol. 1, pp. 1108-1116. **Impact Factor: 5.909.** doi:10.1016/j.jece.2013.08.027
6. **Kumar, M** & Tamilarasan, R. 2013, „Kinetics and equilibrium data modeling studies for the sorption of chromium by Prosopis Juliflora bark carbon“, *Arabian Journal of Chemistry*, Vol. 10, 2017, Pages S1567-S1577. **Impact Factor: 5.165.** doi:10.1016/j.arabjc.2013.05.025
5. **Kumar, M**, Tamilarasan, R & Sivakumar, V. 2013, „Adsorption of Victoria blue by carbon/Ba/Alginate beads: Kinetics, thermodynamics and Isotherm studies“, *Carbohydrate Polymers*, vol. 98, no. 1, pp. 505-513. **Impact Factor: 9.314.** doi:10.1016/j.carbpol.2012.11.076
4. **Kumar, M** & Tamilarasan, R. 2013, „Modeling of experimental data for the adsorption of methyl orange from aqueous solution using a low cost activated carbon prepared from Prosopis juliflora“, *Polish Journal of Chemical Technology*, vol. 15, no. 2, pp. 29-39. **Impact Factor: 1.125.** DOI: 10.2478/pjct-2013-0021
3. **Kumar, M** & Tamilarasan, R. 2013, „Kinetics and Equilibrium Studies on the Removal of Victoria Blue Using Prosopis juliflora Modified Carbon/Zn/Alginate Polymer Composite Beads“, *Journal of Chemical Engineering Data*, vol. 58, no. 3, pp. 517-527. **Impact Factor: 2.694.** DOI: 10.1021/je3012309
2. **Kumar, M** & Tamilarasan, R. 2013, „Modeling studies: Adsorption of aniline blue by using Prosopis Juliflora carbon/Ca/alginate polymer composite beads“, *Carbohydrate Polymers*, vol.92, no. 2, pp. 2171-2180. **Impact Factor: 9.314.** doi:10.1016/j.carbpol.2012.11.076
1. **Kumar, M**, Sridevi K. & Tamilarasan, R. 2012, „Assessment of cadmium and its impact on the uptake efficiency of Phosphate fertilizers by *Amaranthus tricolor*“, *Journal of Material and Environmental Science*, 3(5), 947-954. **Impact Factor: 0.23.**

