



# NANDHA ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)

ERODE – 638 052 TAMILNADU

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## Criterion 3 – Research, Innovations and Extension

3.4

Research Publications and Awards

### ***3.4.5 Bibliometrics of the publications during the year (2022-23) based on average Citation Index in Scopus/ Web of Science/PubMed***

#### INDEX

S.No	Description	Total number of Citations during the year (2022-23)	Total number of Publications during the year (2022-23)
1	<i>Bibliometrics of the publications during the year (2022-23) based on average Citation Index in Scopus</i>	617	83
2	<i>Bibliometrics of the publications during the year (2022-23) based on average Citation Index in Web of Science</i>	224	25



# Citation overview

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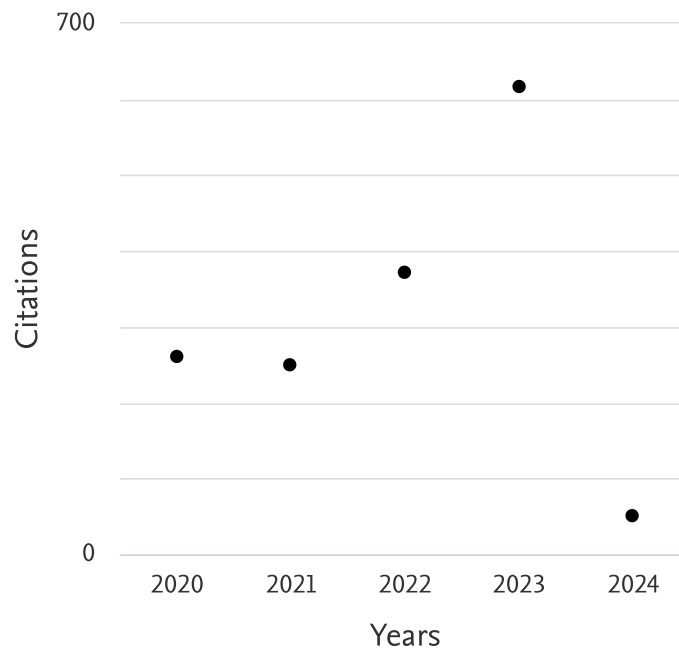
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Documents	Citations	<2020	2020	2021	2022	2023	2024	Subtotal	>2024	Total
	<b>Total</b>	<b>1080</b>	<b>261</b>	<b>250</b>	<b>372</b>	<b>617</b>	<b>51</b>	<b>1551</b>	<b>0</b>	<b>2631</b>
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<input type="checkbox"/> 2 Design of encoder and decoder using reversible logic gates	2024							0		0
<input type="checkbox"/> 3 Humidity activated ultra-selective room temperature gas sens...	2024							0		0
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<input type="checkbox"/>	7	Diabetes classification using MapReduce-based capsule networ...	2024							0		0
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<input type="checkbox"/>	12	A hybrid incomplete decision system using fuzzy sets and rou...	2023							0		0
<input type="checkbox"/>	13	Edge sites enriched vanadium doped MoS <sub>2</sub> /RGO compo...	2023							0		0
<input type="checkbox"/>	14	A Development and Analysis of Color Image New Blind Watermar...	2023							0		0
<input type="checkbox"/>	15	Performance Improvement of Proton Exchange Membrane Fuel Cel...	2023							0		0
<input type="checkbox"/>	16	Design and Development of Surface Plasmon Polariton Resonanc...	2023					3		3		3
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Documents			Citations	<2020	2020	2021	2022	2023	2024	Subtotal	>2024	Total
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Documents			Citations	<2020	2020	2021	2022	2023	2024	Subtotal	>2024	Total
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<input type="checkbox"/>	197	VLSI Design of a Squaring Architecture based on Yavadunam Su...	2020			2	1	1	2	6		6
<input type="checkbox"/>	198	Smart farming field observation using embedded systems	2020		1	2	2	6		11		11
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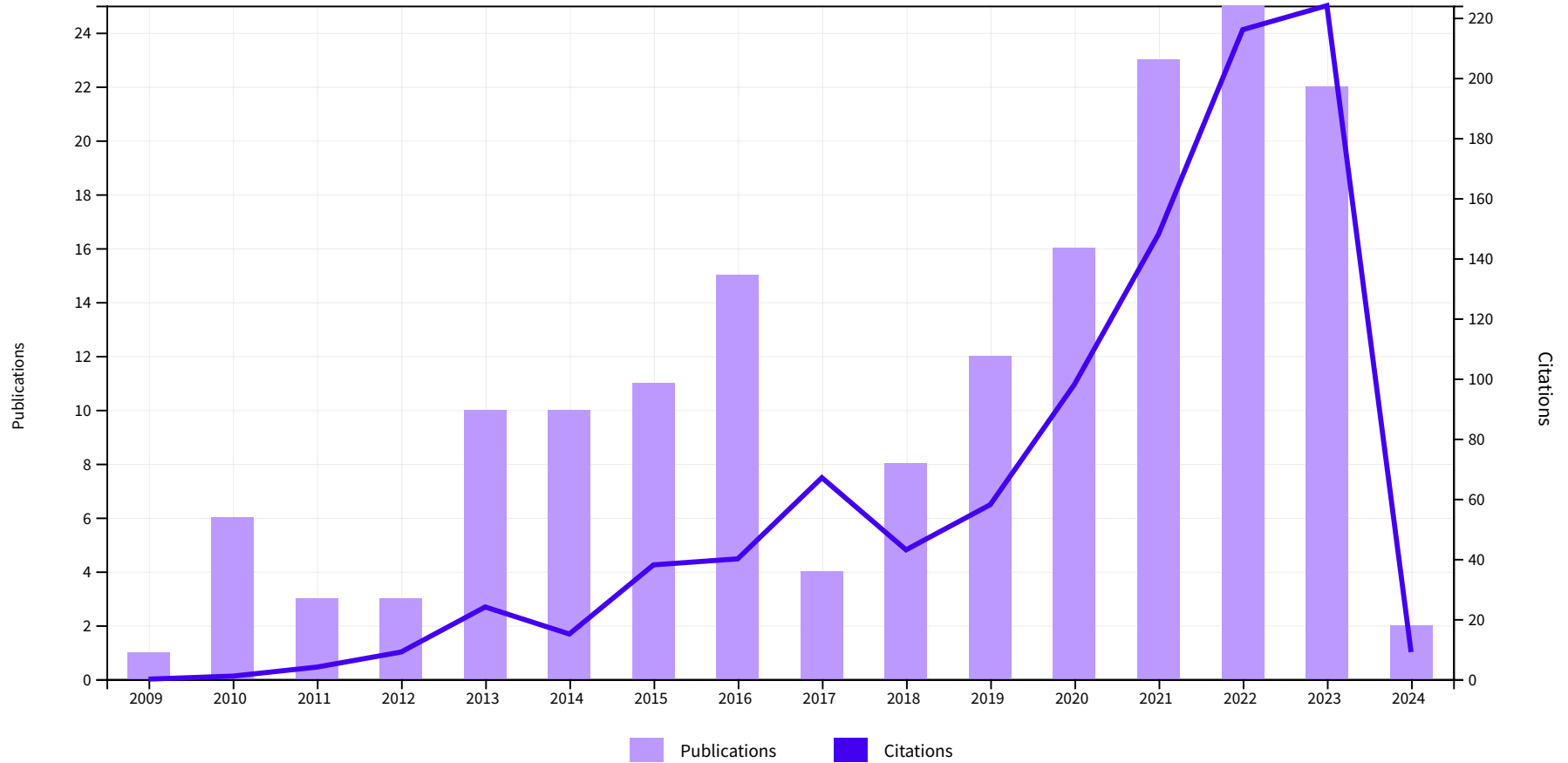
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		2020	2021	2022	2023	2024				
Total		98	148	216	224	9	66.27	994		
⊖ 1	<p>Humidity activated ultra-selective room temperature gas sensor based on W doped MoS2/RGO composites for trace level ammonia detection</p> <p><a href="#">Sibi, SPL</a>; <a href="#">Rajkumar, M</a>; (...); <a href="#">Kumar, RTR</a></p> <p>Jan 25 2024   <a href="#">ANALYTICA CHIMICA ACTA</a> 1287</p> <p> Enriched Cited References</p>	0	0	0	0	0	0	0	0	
⊖ 2	<p>Diabetes classification using MapReduce-based capsule network</p> <p><a href="#">Arun, G</a> and <a href="#">Marimuthu, CN</a></p> <p>Jan 2 2024   <a href="#">AUTOMATIKA</a> 65 (1) , pp.73-81</p> <p> Enriched Cited References</p>	0	0	0	0	0	0	0	0	
⊖ 3	<p>Cluster-based context-aware route service management for smart intelligent autonomous vehicles with industrial transport system</p> <p><a href="#">Nagappan, G</a>; <a href="#">Maheswari, KG</a>; (...); <a href="#">Shobana, M</a></p>	0	0	0	0	0	0	0	0	

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④ 4

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[Thenmozhi, M](#); [Umamaheswari, S](#); (...); [Thangavel, J](#)

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④ 5

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④ 6




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<p>7</p> <p><a href="#">Optimizing signal smoothing using HERS algorithm and time fractional diffusion equation</a></p> <p><a href="#">Jayaraj, AP</a>; <a href="#">Gounder, KN</a> and <a href="#">Rajagopal, J</a>                      Mar 15 2024   Nov 2023 (Early Access)    <a href="#">EXPERT SYSTEMS WITH APPLICATIONS</a> 238</p>		0	0	0	0	0	0	0
<p>8</p> <p><a href="#">Edge sites enriched vanadium doped MoS<sub>2</sub>/RGO composites as highly selective room temperature ammonia gas sensors with ppb level detection</a></p> <p><a href="#">Sibi, SPL</a>; <a href="#">Rajkumar, M</a>; (...); <a href="#">Thangavelu, RKR</a>                      Nov 30 2023   Oct 2023 (Early Access)    <a href="#">JOURNAL OF MATERIALS CHEMISTRY C</a> 11 (46) , pp.16333-16345</p> <p>  Enriched Cited References                 </p>		0	0	0	0	0	0	0
<p>9</p> <p><a href="#">Performance Improvement of Proton Exchange Membrane Fuel Cell by Modified Flow Field Design</a></p> <p><a href="#">Saminathan, J</a>; <a href="#">Marappan, M</a>; (...); <a href="#">Ramasamy, S</a>                      Oct 1 2023   <a href="#">JOURNAL OF ENERGY ENGINEERING</a> 149 (5)</p> <p>  Enriched Cited References                 </p>		0	0	0	0	0	0	0

<p>10 <a href="#">A Development and Analysis of Color Image New Blind Watermarking Based on DWT-SVD Swapping and 3-Dimensional Cryptography Technique</a></p> <p><a href="#">Jayachandran, T</a> and <a href="#">Kavitha, S</a></p> <p>Sep 2023 (Early Access)   <a href="#">FLUCTUATION AND NOISE LETTERS</a></p>	0	0	0	0	0	0	0
<p>11 <a href="#">Enhancing micromachining precision with novel electrolyte combinations: an investigation</a></p> <p><a href="#">Gunasekaran, S</a>; <a href="#">Periyagounder, S</a> and <a href="#">Subramaniam, M</a></p> <p>Aug 2023   <a href="#">JOURNAL OF CERAMIC PROCESSING RESEARCH</a> 24 (4) , pp.705-713</p> <p> Enriched Cited References</p>	0	0	0	0	0	0	0
<p>12 <a href="#">Improved visible light response photocatalytic activity of CuWO<sub>4</sub>/g-C<sub>3</sub>N<sub>4</sub> nanocomposites for degradation of organic dyes</a></p> <p><a href="#">Rathi, V</a>; <a href="#">Mohan, KS</a>; (...); <a href="#">Sankar, A</a></p> <p>Aug 2023   <a href="#">JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS</a> 34 (22)</p> <p> Enriched Cited References</p>	0	0	0	0	0	0	0
	0	0	0	3	0	1.5	3

<p>13</p>	<p>Investigation and validation of PV fed reduced switch asymmetric multilevel inverter using optimization based selective harmonic elimination technique</p> <p><a href="#">Jayakumar, T</a>; <a href="#">Ramani, G</a>; (...); <a href="#">Ganji, V</a></p> <p>Jul 3 2023   <a href="#">AUTOMATIKA</a> 64 (3) , pp.441-452</p> <p> Enriched Cited References</p>							
<p>14</p>	<p>Design and Development of Surface Plasmon Polariton Resonance Four-Element Triple-Band Multi-Input Multioutput Systems for LTE/5G Applications</p> <p><a href="#">Saikumar, K</a>; <a href="#">Arulanantham, D</a>; (...); <a href="#">Pal, A</a></p> <p>Jun 2023 (Early Access)   <a href="#">PLASMONICS</a></p> <p> Enriched Cited References</p>	0	0	0	1	0	0.5	1
<p>15</p>	<p>Optimal cluster based feature selection for intrusion detection system in web and cloud computing environment using hybrid teacher learning optimization enables deep recurrent neural network</p> <p><a href="#">Maheswari, KG</a>; <a href="#">Siva, C</a> and <a href="#">Nalinipriya, G</a></p> <p>Mar 15 2023   Feb 2023 (Early Access)   <a href="#">COMPUTER COMMUNICATIONS</a> 202 , pp.145-153</p>	0	0	0	4	0	2	4
		0	0	0	3	2	2.5	5

<p>16</p>	<p>Electronic sensitization enhanced p-type ammonia gas sensing of zinc doped MoS<sub>2</sub>/RGO composites</p> <p><a href="#">Sibi, SPL</a>; <a href="#">Rajkumar, M</a>; (...); <a href="#">Kumar, RTR</a></p> <p>Apr 1 2023   Feb 2023 (Early Access)   <a href="#">ANALYTICA CHIMICA ACTA</a> 1248</p> <p> Enriched Cited References</p>							
<p>17</p>	<p>PERFORMANCE EVALUATION OF FIBRE REINFORCED PERVIOUS CONCRETE PAVEMENT</p> <p><a href="#">Prakash, RJ</a>; <a href="#">Soundara, B</a>; (...); <a href="#">Johnson, SC</a></p> <p>2023   <a href="#">REVISTA ROMANA DE MATERIALE-ROMANIAN JOURNAL OF MATERIALS</a> 53 (3) , pp.237-247</p>	0	0	0	0	0	0	0
<p>18</p>	<p>A hybrid incomplete decision system using fuzzy sets and rough set theory with varying object sets and values</p> <p><a href="#">Megala, A</a> and <a href="#">Veeramani, C</a></p> <p>2023   <a href="#">JOURNAL OF INTELLIGENT &amp; FUZZY SYSTEMS</a> 45 (5) , pp.7957-7974</p> <p> Enriched Cited References</p>	0	0	0	0	0	0	0
<p>19</p>	<p>Self-Adaptive Hybridized Lion Optimization Algorithm With Transfer Learning for Ancient Tamil Character Recognition in Stone Inscriptions</p> <p><a href="#">Priya, RD</a>; <a href="#">Karthikeyan, S</a>; (...); <a href="#">Nandhagopal, SM</a></p>	0	0	0	1	0	0.5	1

<p>2023   <a href="#">IEEE ACCESS</a> 11 , pp.39621-39634</p>							
<p>20  <a href="#">Sengottaiyan, SM; Rajaiiah, J; (...); Ponnusamy, J</a> 2023   <a href="#">INTERNATIONAL JOURNAL OF INDUSTRIAL ENGINEERING-THEORY APPLICATIONS AND PRACTICE</a> 30 (3) , pp.781-796</p>	0	0	0	0	0	0	0
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⊖								
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⊖	0	0	0	1	0	0.33	1	
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⊖								
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⊖								
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