

# Murugananthan Muthu

## List of Publications by Year in descending order

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Version: 2024-02-01

33  
papers

2,402  
citations

201575

27  
h-index

395590

33  
g-index

35  
all docs

35  
docs citations

35  
times ranked

2949  
citing authors

#	ARTICLE	IF	CITATIONS
1	Visible light-driven photocatalytically active g-C <sub>3</sub> N <sub>4</sub> material for enhanced generation of H <sub>2</sub> O <sub>2</sub> . Applied Catalysis B: Environmental, 2018, 232, 19-25.	10.8	227
2	Mineralization of bisphenol A (BPA) by anodic oxidation with boron-doped diamond (BDD) electrode. Journal of Hazardous Materials, 2008, 154, 213-220.	6.5	192
3	Degradation of p-nitrophenol by heat and metal ions co-activated persulfate. Chemical Engineering Journal, 2015, 264, 39-47.	6.6	155
4	Removal of sulfide, sulfate and sulfite ions by electro coagulation. Journal of Hazardous Materials, 2004, 109, 37-44.	6.5	154
5	Electrochemical degradation of 17 $\beta$ -estradiol (E2) at boron-doped diamond (Si/BDD) thin film electrode. Electrochimica Acta, 2007, 52, 3242-3249.	2.6	153
6	Separation of pollutants from tannery effluents by electro flotation. Separation and Purification Technology, 2004, 40, 69-75.	3.9	144
7	Electrochemically self-doped WO <sub>3</sub> /TiO <sub>2</sub> nanotubes for photocatalytic degradation of volatile organic compounds. Applied Catalysis B: Environmental, 2020, 260, 118205.	10.8	142
8	Degradation of p-Nitrophenol by thermally activated persulfate in soil system. Chemical Engineering Journal, 2016, 283, 1357-1365.	6.6	104
9	Electrochemically Self-Doped TiO <sub>2</sub> Nanotube Arrays for Efficient Visible Light Photoelectrocatalytic Degradation of Contaminants. Electrochimica Acta, 2014, 136, 310-317.	2.6	97
10	Role of electrolyte on anodic mineralization of atenolol at boron doped diamond and Pt electrodes. Separation and Purification Technology, 2011, 79, 56-62.	3.9	79
11	Photoelectrocatalytic degradation of microcystin-LR using Ag/AgCl/TiO <sub>2</sub> nanotube arrays electrode under visible light irradiation. Chemical Engineering Journal, 2013, 231, 455-463.	6.6	77
12	Anodic oxidation of ketoprofen—An anti-inflammatory drug using boron doped diamond and platinum electrodes. Journal of Hazardous Materials, 2010, 180, 753-758.	6.5	75
13	Graphitic carbon nitride based photocatalysis for redox conversion of arsenic(III) and chromium(VI) in acid aqueous solution. Applied Catalysis B: Environmental, 2019, 248, 349-356.	10.8	74
14	Degradation of Rhodamine B using a Visible-light driven Photocatalytic Fuel Cell. Electrochimica Acta, 2014, 144, 7-15.	2.6	59
15	Synthesis of Z-scheme g-C <sub>3</sub> N <sub>4</sub> @Ti <sup>3+</sup> /TiO <sub>2</sub> material: an efficient visible light photoelectrocatalyst for degradation of phenol. Physical Chemistry Chemical Physics, 2015, 17, 8877-8884.	1.3	59
16	Decomposition of various endocrine-disrupting chemicals at boron-doped diamond electrode. Electrochimica Acta, 2009, 54, 2031-2038.	2.6	58
17	Bifunctional Pd-O <sub>2</sub> Center at the Liquid-Solid-Gas Triphase Interface for H <sub>2</sub> O <sub>2</sub> Photosynthesis. ACS Catalysis, 2022, 12, 2138-2149.	5.5	58
18	Development of novel $\text{Fe}_2\text{O}_3/\text{NiTiO}_3$ heterojunction nanofibers material with enhanced visible-light photocatalytic performance. Journal of Alloys and Compounds, 2015, 630, 110-116.	2.8	49

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19	Electrochemical degradation of PNP at boron-doped diamond and platinum electrodes. Journal of Hazardous Materials, 2013, 244-245, 295-302.	6.5	46
20	Removal of tannins and polyhydroxy phenols by electro-chemical techniques. Journal of Chemical Technology and Biotechnology, 2005, 80, 1188-1197.	1.6	45
21	Stabilized oxygen vacancies over heterojunction for highly efficient and exceptionally durable VOCs photocatalytic degradation. Applied Catalysis B: Environmental, 2020, 273, 119061.	10.8	43
22	Anodic oxidation of isothiazolin-3-ones in aqueous medium by using boron-doped diamond electrode. Diamond and Related Materials, 2016, 69, 152-159.	1.8	34
23	Fabrication of a Z-Scheme g-C <sub>3</sub> N <sub>4</sub> /Fe-TiO <sub>2</sub> Photocatalytic Composite with Enhanced Photocatalytic Activity under Visible Light Irradiation. Catalysts, 2018, 8, 112.	1.6	33
24	A novel electric-assisted photocatalytic technique using self-doped TiO <sub>2</sub> nanotube films. Applied Catalysis B: Environmental, 2022, 307, 121174.	10.8	33
25	Electrochemical reduction of CO <sub>2</sub> using Cu electrode in methanol/LiClO <sub>4</sub> electrolyte. International Journal of Hydrogen Energy, 2015, 40, 6740-6744.	3.8	32
26	Construction of an in-situ Fenton-like system based on a g-C <sub>3</sub> N <sub>4</sub> composite photocatalyst. Journal of Hazardous Materials, 2019, 373, 565-571.	6.5	32
27	Enhanced photocatalytic CO <sub>2</sub> reduction with defective TiO <sub>2</sub> nanotubes modified by single-atom binary metal components. Environmental Research, 2021, 198, 111176.	3.7	29
28	A novel, biocompatible and electrocatalytic stearic acid/nanosilver modified glassy carbon electrode for the sensing of paraoxon pesticide in food samples and commercial formulations. Food Chemistry, 2020, 323, 126814.	4.2	27
29	Electrochemical detection of fenitrothion using nanosilver/dodecane modified glassy carbon electrode. Sensors and Actuators B: Chemical, 2021, 331, 129467.	4.0	26
30	Electrochemical degradation and mechanistic analysis of microcystin-LR at boron-doped diamond electrode. Chemical Engineering Journal, 2014, 243, 117-126.	6.6	21
31	Highly Efficient and Visible Light Responsive Heterojunction Composites as Dual Photoelectrodes for Photocatalytic Fuel Cell. Catalysts, 2018, 8, 30.	1.6	19
32	Enhancement of S(IV)-Cr(VI) reaction in p-nitrophenol degradation using rice husk biochar at neutral conditions. Science of the Total Environment, 2020, 749, 142086.	3.9	12
33	Gas-phase photoelectrocatalytic oxidation of volatile organic compounds using defective WO <sub>3</sub> /TiO <sub>2</sub> nanotubes mesh. Environmental Science: Nano, 2022, 9, 2172-2181.	2.2	4