

# Palak Thesis Plagiarism check

## ORIGINALITY REPORT

13%

SIMILARITY INDEX

8%

INTERNET SOURCES

9%

PUBLICATIONS

2%

STUDENT PAPERS

## PRIMARY SOURCES

- |   |   |    |
|---|---|----|
| 1 | Wee-Jun Ong, Lling-Lling Tan, Yun Hau Ng, Siek-Ting Yong, Siang-Piao Chai. " Graphitic Carbon Nitride (g-C N )-Based Photocatalysts for Artificial Photosynthesis and Environmental Remediation: Are We a Step Closer To Achieving Sustainability? ", Chemical Reviews, 2016<br>Publication | 1% |
| 2 | tudr.thapar.edu:8080<br>Internet Source   | 1% |
| 3 | Manjusha Passi, Bonamali Pal. "Influence of Ag/Cu photodeposition on CaTiO <sub>3</sub> photocatalytic activity for degradation of Rhodamine B dye", Korean Journal of Chemical Engineering, 2022<br>Publication  | 1% |
| 4 | pubs.rsc.org<br>Internet Source   | 1% |
| 5 | doaj.org<br>Internet Source   | 1% |

*Raj Kumar Das*

- 6 [www.mdpi.com](http://www.mdpi.com)  
Internet Source <1 %
- 
- 7 Ling Bing Kong. "Nanomaterials for Supercapacitors", CRC Press, 2017  
Publication <1 %
- 
- 8 Putri Rizka Lestari, Takahiro Takei, Nobuhiro Kumada. "Novel ZnTi/C<sub>3</sub>N<sub>4</sub>/Ag LDH heterojunction composite for efficient photocatalytic phenol degradation", Journal of Solid State Chemistry, 2020  
Publication <1 %
- 
- 9 [link.springer.com](http://link.springer.com)  
Internet Source <1 %
- 
- 10 G. Bharath, J. Prakash, K. Rambabu, G. Devanand Venkatasubbu et al. "Synthesis of TiO<sub>2</sub>/RGO with plasmonic Ag nanoparticles for highly efficient photoelectrocatalytic reduction of CO<sub>2</sub> to methanol toward the removal of an organic pollutant from the atmosphere", Environmental Pollution, 2021  
Publication <1 %
- 
- 11 [www.rsc.org](http://www.rsc.org)  
Internet Source <1 %
- 
- 12 G. Mamba, G. Gangashe, L. Moss, S. Hariganesh, S. Thakur, S. Vadivel, A.K. Mishra, G.D. Vilakati, V. Muthuraj, T.T.I. Nkambule.  
"State of the art on the photocatalytic

*Raj Kumar Das*

applications of graphene based nanostructures: From elimination of hazardous pollutants to disinfection and fuel generation", Journal of Environmental Chemical Engineering, 2019  
Publication

- 
- |    |  |      |
|----|--|------|
| 13 | wiredspace.wits.ac.za<br>Internet Source | <1 % |
|----|--|------|
- 
- |    |  |      |
|----|--|------|
| 14 | www.freepatentsonline.com<br>Internet Source | <1 % |
|----|--|------|
- 
- |    |   |      |
|----|---|------|
| 15 | www.idsemergencymanagement.com<br>Internet Source | <1 % |
|----|---|------|
- 
- |    |  |      |
|----|--|------|
| 16 | Manpreet Kaur Aulakh, Bonamali Pal. "Solar irradiated selective nitroaromatics reduction over plasmonic Ag-TiO <sub>2</sub> : deposition time dependent size growth and oxidation state of co-catalyst", Chemical Engineering Journal, 2021<br>Publication | <1 % |
|----|--|------|
- 
- |    |                                  |      |
|----|----------------------------------|------|
| 17 | www.jwent.net<br>Internet Source | <1 % |
|----|----------------------------------|------|
- 
- |    |                               |      |
|----|-------------------------------|------|
| 18 | core.ac.uk<br>Internet Source | <1 % |
|----|-------------------------------|------|
- 
- |    |                                       |      |
|----|---------------------------------------|------|
| 19 | yonghu.zjnu.edu.cn<br>Internet Source | <1 % |
|----|---------------------------------------|------|
- 
- |    |           |  |
|----|-----------|--|
| 20 | coek.info |  |
|----|-----------|--|

*Raj Kumar Des*

Internet Source

<1 %

- 
- 21 Aanchal Rathi, Soumen Basu, Sanghamitra Barman. "Adsorptive removal of fipronil from its aqueous solution by modified zeolite HZSM-5: Equilibrium, kinetic and thermodynamic study", Journal of Molecular Liquids, 2019  
Publication <1 %
- 
- 22 ouci.dntb.gov.ua  
Internet Source <1 %
- 
- 23 worldwidescience.org  
Internet Source <1 %
- 
- 24 www.frontiersin.org  
Internet Source <1 %
- 
- 25 Vimalasundari Nagarajan, Balamurugan Arumugam, Jamespandi Annaraj, Sayee Kannan Ramaraj. "Design of Rutile nanospheres Decorated rGO/ $\beta$ -CD nanoflakes composite: A Sustainable electrocatalyst for effective non-enzymatic determination of L-Tyrosine", Sensors and Actuators B: Chemical, 2021  
Publication <1 %
- 
- 26 iris.unito.it  
Internet Source <1 %
- 

*Raj Kumar Das*

27 www.tandfonline.com <1 %  
Internet Source

---

28 Wenjing Li, Changjun Zou. "Deep desulfurization of gasoline by synergistic effect of functionalized  $\beta$ -CD-TiO<sub>2</sub>-Ag nanoparticles with ionic liquid", Fuel, 2018 <1 %  
Publication

---

29 d-nb.info <1 %  
Internet Source

---

30 Wubin Sui, Jingtang Zheng, Charles U. Pittman, Nasr Bensalah, Mingbo Wu, Yucui Zhao. " Properties of a three-dimensionally ordered macro-mesoporous carbon-doped composite catalyst ", Functional Materials Letters, 2014 <1 %  
Publication

---

31 Submitted to DAV University Jalandhar <1 %  
Student Paper

---

32 Emmanuel Nyankson, Jonas Adjasoo, Johnson Kwame Efavi, Abu Yaya, Gloria Manu, Asare Kingsford, Richard Yeboah Abrokwah. "Synthesis and kinetic adsorption characteristics of Zeolite/CeO<sub>2</sub> nanocomposite", Scientific African, 2020 <1 %  
Publication

---

33 Jaspreet Kaur, Rohit Singh, Bonamali Pal. "Influence of coinage and platinum group <1 %

*Raj Kumar Das*

metal co-catalysis for the photocatalytic reduction of m-dinitrobenzene by P25 and rutile TiO<sub>2</sub>", Journal of Molecular Catalysis A: Chemical, 2015

Publication

- 
- 34 Shashi Prabha Dubey, Thuy T.M. Nguyen, Young-Nam Kwon, Changha Lee. "Synthesis and characterization of metal-doped reduced graphene oxide composites, and their application in removal of Escherichia coli, arsenic and 4-nitrophenol", Journal of Industrial and Engineering Chemistry, 2015

Publication

- 
- 35 [espace.curtin.edu.au](http://espace.curtin.edu.au)

Internet Source

- 
- 36 [pdffox.com](http://pdffox.com)

Internet Source

- 
- 37 [www.ijraset.com](http://www.ijraset.com)

Internet Source

- 
- 38 Ahmed M. Shawky, Maha El-Tohamy. "Signal amplification strategy of label-free ultrasensitive electrochemical immunosensor based ternary Ag/TiO<sub>2</sub>/rGO nanocomposites for detecting breast cancer biomarker CA 15-3", Materials Chemistry and Physics, 2021

Publication

---

*Raj Kumar Das*

- 39 Gao, Peng, Anran Li, Darren Delai Sun, and Wun Jern Ng. "Effects of various TiO<sub>2</sub> nanostructures and graphene oxide on photocatalytic activity of TiO<sub>2</sub>", Journal of Hazardous Materials, 2014.  
Publication <1 %
- 
- 40 Nur Shazwani Abdul Mubarak, K.Y. Foo, Raphaël Schneider, Reda M. Abdelhameed, S. Sabar. "Nitrogen-doped porous carbon TiO<sub>2</sub> produced by thermolysis of MIL-125-NH<sub>2</sub> under an inert atmosphere for enhanced visible light photocatalytic activity", Materials Today Communications, 2023  
Publication <1 %
- 
- 41 Tao Liu, Lichun Zhang, Hongjie Song, Zhonghui Wang, Yi Lv. "Sonochemical synthesis of Ag nanoclusters: electrogenerated chemiluminescence determination of dopamine", Luminescence, 2013  
Publication <1 %
- 
- 42 Submitted to University of Greenwich  
Student Paper <1 %
- 
- 43 [iopscience.iop.org](http://iopscience.iop.org)  
Internet Source <1 %
- 
- 44 [www.intechopen.com](http://www.intechopen.com)  
Internet Source <1 %
- 

*Raj Kumar Das*

45 Submitted to Bolton Institute of Higher Education <1 %  
Student Paper

---

46 Submitted to Queensland Academy of Health Sciences <1 %  
Student Paper

---

47 baadalsg.inflibnet.ac.in <1 %  
Internet Source

---

48 daneshyari.com <1 %  
Internet Source

---

49 Abdul Khadar, M.. "Nanoscale fine-structure evaluation of RF magnetron sputtered anatase films using HRTEM, AFM, micro-Raman spectroscopy and fractal analysis", Surface & Coatings Technology, 20100125  
Publication

---

50 Taka, Anny Leudjo. "Phosphorylated Carbon Nanotube-Cyclodextrin/Silver-Doped Titania Nanobiocomposites for Water Purification.", University of Johannesburg (South Africa), 2021  
Publication

---

51 Wenjing Li, Changjun Zou. "Experimental investigation of stability and thermo-physical properties of functionalized  $\beta$ -CD-TiO<sub>2</sub>-Ag nanofluids for antifreeze", Powder Technology, 2018 <1 %

*Rajkumar Das*

Publication

- 
- 52 Submitted to Higher Education Commission <1 %  
Pakistan  
Student Paper
- 
- 53 Submitted to Savitribai Phule Pune University <1 %  
Student Paper
- 
- 54 Submitted to University of Technology <1 %  
Student Paper
- 
- 55 eprints.whiterose.ac.uk <1 %  
Internet Source
- 
- 56 sciendo.com <1 %  
Internet Source
- 
- 57 Vijay B. Pawade, Paresh H. Salame, Bharat A. Bhanvase. "Multifunctional Nanostructured Metal Oxides for Energy Harvesting and Storage Devices", CRC Press, 2020 <1 %  
Publication
- 
- 58 Wu, C.H.. "Decolorization of Procion Red MX-5B in electrocoagulation (EC), UV/TiO<sub>2</sub> and ozone-related systems", Dyes and Pigments, 2008 <1 %  
Publication
- 
- 59 mdpi.com <1 %  
Internet Source
- 
- 60 Submitted to Indian Institute of Science, Bangalore <1 %

~~AB~~ Raj Kumar Das

- 
- 61 Nur Fajrina, Muhammad Tahir. "Engineering approach in stimulating photocatalytic H<sub>2</sub> production in a slurry and monolithic photoreactor systems using Ag-bridged Z-scheme pCN/TiO<sub>2</sub> nanocomposite", Chemical Engineering Journal, 2019  
Publication <1 %
- 
- 62 Ping Wang, Lei Han, Chengzhou Zhu, Yueming Zhai, Shaojun Dong. "Aqueous-phase synthesis of Ag-TiO<sub>2</sub>-reduced graphene oxide and Pt-TiO<sub>2</sub>-reduced graphene oxide hybrid nanostructures and their catalytic properties", Nano Research, 2011  
Publication <1 %
- 
- 63 Zheng, S.. "On the enhanced catalytic activity of TiO<sub>2</sub>-supported layered compounds for Cr(VI) photo-reduction", Journal of Photochemistry & Photobiology, A: Chemistry, 20001204  
Publication <1 %
- 
- 64 [muhendislik.giresun.edu.tr](http://muhendislik.giresun.edu.tr)  
Internet Source <1 %
- 
- 65 [www.renishaw.com.tr](http://www.renishaw.com.tr)  
Internet Source <1 %
- 
- 66 Bharat A. Bhanvase, Rajendra P. Ugwekar, Raju B. Mankar. "Novel Water Treatment and

*Raj Kumar Das*

Separation Methods - Simulation of Chemical Processes", CRC Press, 2017  
Publication

---

67 Hai-Ying Jiang, Peng Li, Guigao liu, Jinhua Ye, Jun Lin. " Synthesis and photocatalytic properties of metastable  $\beta$ -Bi O stabilized by surface-coordination effects ", Journal of Materials Chemistry A, 2015  
Publication

---

68 Jamiu, Zakariyah Abdulkareem. "Multilayered Polyelectrolyte-Coated Silica for the Removal of Toxic Metal Ions and Organic Contaminants: A Novel Protocol", King Fahd University of Petroleum and Minerals (Saudi Arabia), 2023  
Publication

---

69 Jian Wang, Ruihong Zhang, Zhanhui Lu, Yuejie Ai. "Experimental and theoretical studies of spherical  $\beta$ -cyclodextrin modified titanium dioxide composites for uranium removal", Ecological Engineering, 2020  
Publication

---

70 Park, Yu Ri. "Synthesis, characterisation and application of organic surfactants modified clays for water purification", 'Queensland University of Technology', 2013  
Internet Source

---

*Raj Kumar Das*

71 Pigment & Resin Technology, Volume 43, Issue 1 (2013-12-14) <1 %  
Publication

---

72 Rakesh K. Sindhu, Mansi Chitkara, Inderjeet Singh Sandhu. "Nanotechnology - Principles and Applications", Routledge, 2021 <1 %  
Publication

---

73 Ranjana Prakash, Rayees Ahmad Rather, Manpreet Kaur, Bonamali Pal. " Oxidative degradation of aliphatic carboxylic acids by photocatalysis with bare and Ag-loaded TiO under UV light irradiation ", Particulate Science and Technology, 2016 <1 %  
Publication

---

74 Sheng Cao, Shao-zhong Hu, Dan Luo, Ting Huang, Nan Zhang, Yan-zhou Lei, Yong Wang. "Bio-inspired one-step structure adjustment and chemical modification of melamine foam toward highly efficient removal of hexavalent chromium ions", Separation and Purification Technology, 2021 <1 %  
Publication

---

75 docplayer.net <1 %  
Internet Source

---

76 era.library.ualberta.ca <1 %  
Internet Source

---

repository.lib.ncsu.edu

*Raj Kumar Des*

- 77 Internet Source <1 %
- 
- 78 [www.researchgate.net](http://www.researchgate.net)  
Internet Source <1 %
- 
- 79 [www.sciencegate.app](http://www.sciencegate.app)  
Internet Source <1 %
- 
- 80 Batool, Samavia. "Application of Green Iron Nanoparticles Supported on Biochar for the Removal of Selected Organochlorine Pesticides from Water", University of Malaya (Malaysia), 2023  
Publication <1 %
- 
- 81 Bo Chen, Sijiang Chen, Huinan Zhao, Yang Liu, Fengxia Long, Xuejun Pan. "A versatile  $\beta$ -cyclodextrin and polyethyleneimine bi-functionalized magnetic nanoadsorbent for simultaneous capture of methyl orange and Pb(II) from complex wastewater", Chemosphere, 2019  
Publication <1 %
- 
- 82 D. Neela Priya, Jayant M. Modak, Polonca Trebše, Romina Žabar, Ashok M. Raichur. "Photocatalytic degradation of dimethoate using LbL fabricated TiO<sub>2</sub>/polymer hybrid films", Journal of Hazardous Materials, 2011  
Publication <1 %

Rajkumar Das

83 Guo, Xiaolei, Dong Li, Jiafeng Wan, and Xiujuan Yu. "Preparation and electrochemical property of TiO<sub>2</sub>/Nano-graphite composite anode for electro-catalytic degradation of ceftriaxone sodium", *Electrochimica Acta*, 2015.  
Publication

<1 %

84 Klaus D. Sattler. "21 Century Nanoscience – A Handbook - Design Strategies for Synthesis and Fabrication (Volume Two)", CRC Press, 2019  
Publication

<1 %

85 Wei Fan, Wei Gao, Chao Zhang, Weng Weei Tjiu, Jisheng Pan, Tianxi Liu. "Hybridization of graphene sheets and carbon-coated Fe<sub>3</sub>O<sub>4</sub> nanoparticles as a synergistic adsorbent of organic dyes", *Journal of Materials Chemistry*, 2012  
Publication

<1 %

86 Xiufeng Zhou, Juan Lu, Jialei Cao, Mengfei Xu, Zuoshan Wang. "Simple fabrication of rod-like N-doped TiO<sub>2</sub>/Ag with enhanced visible-light photocatalytic activity", *Ceramics International*, 2014  
Publication

<1 %

87 Yaqi Hou, Shengyan Pu, Qingqing Shi, Sandip Mandal, Hui Ma, Shengyang Xue, Guojun Cai, Yingchen Bai. "Ultrasonic impregnation

<1 %

Raj Kumar Des

assisted in-situ photoreduction deposition synthesis of Ag/TiO<sub>2</sub>/rGO ternary composites with synergistic enhanced photocatalytic activity", Journal of the Taiwan Institute of Chemical Engineers, 2019

Publication

88

Yilong Zhao, Yuechang Wei, Xingxing Wu, Huiling Zheng, Zhen Zhao, Jian Liu, Jianmei Li. "Graphene-wrapped Pt/TiO<sub>2</sub> photocatalysts with enhanced photogenerated charges separation and reactant adsorption for high selective photoreduction of CO<sub>2</sub> to CH<sub>4</sub>", Applied Catalysis B: Environmental, 2018

Publication

<1 %

89

academic.oup.com  
Internet Source

<1 %

90

diginole.lib.fsu.edu  
Internet Source

<1 %

91

nagoya.repo.nii.ac.jp  
Internet Source

<1 %

92

publicatio.bibl.u-szeged.hu  
Internet Source

<1 %

93

pure.rug.nl  
Internet Source

<1 %

94

theses.lib.polyu.edu.hk  
Internet Source

<1 %

Raj Kumar Das  
AD

- |     |  |      |
|-----|--|------|
| 95  | vital.seals.ac.za:8080<br>Internet Source  | <1 % |
| 96  | vuir.vu.edu.au<br>Internet Source  | <1 % |
| 97  | www.advertizer.co.uk<br>Internet Source  | <1 % |
| 98  | www.hindawi.com<br>Internet Source   | <1 % |
| 99  | www.science.gov<br>Internet Source   | <1 % |
| 100 | www2.mdpi.com<br>Internet Source   | <1 % |
| 101 | Carlos J. Montes, María Luisa Ojeda, Federico González, Miguel Ángel García-Sánchez, Fernando Rojas, Celso Velásquez. "On Trapping Porphyrin Free-Bases Between Graphene Oxide Plates", Nano, 2015<br>Publication  | <1 % |
| 102 | Fang, Baizeng, Nitin K. Chaudhari, Min-Sik Kim, Jung Ho Kim, and Jong-Sung Yu. "Homogeneous Deposition of Platinum Nanoparticles on Carbon Black for Proton Exchange Membrane Fuel Cell", Journal of the American Chemical Society, 2009.<br>Publication | <1 % |

*Ray Kumar Das*

103 Jasmeet Kaur, Bonamali Pal. "Photocatalytic degradation of N-heterocyclic aromatics— effects of number and position of nitrogen atoms in the ring", Environmental Science and Pollution Research, 2012 <1 %  
Publication

---

104 Chung-Hsin Wu. "Photodegradation of toluic acid isomers by UV/TiO<sub>2</sub>", Reaction Kinetics and Catalysis Letters, 2007 <1 %  
Publication

---

105 Kalavathy, M.H.. "Kinetic and isotherm studies of Cu(II) adsorption onto H<sup>3</sup>PO<sup>4</sup>-activated rubber wood sawdust", Journal of Colloid And Interface Science, 20051215 <1 %  
Publication

---

106 L. A. Belyakova, A. N. Shvets. "Interaction of cadmium nitrate with the surface of functionalized organosilicas", Russian Chemical Bulletin, 2011 <1 %  
Publication

---

107 R D Tomlinson, A E Hill, R D Pilkington. "Ternary and Multinary Compounds", Institute of Physics Publishing, 2020 <1 %  
Publication

---

108 Shadpour Mallakpour, Maryam Tukhani. "Green organo-modification of cyclodextrin metal oxide hybrids: Characterization, <1 %

*Raj Kumar Das*

properties, and applications", Elsevier BV,  
2020  
Publication

---

Exclude quotes Off  
Exclude bibliography Off

Exclude matches Off

*Raj Kumar Das*