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19-07-2018	Final Report	15-Apr-2017 - 14-Apr-2018

4. TITLE AND SUBTITLE

Final Report: Acquisition of High Sensitivity Instruments to Enhance Advanced Recognition of Photocatalytic Activity of Composite Materials as CWA Deactivation and Detection Media

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W911NF-17-1-0167

5b. GRANT NUMBER

5c. PROGRAM ELEMENT NUMBER
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7. PERFORMING ORGANIZATION NAMES AND ADDRESSES

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69986-CH-RIP.1

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Approved for public release; distribution is unlimited.

13. SUPPLEMENTARY NOTES

The views, opinions and/or findings contained in this report are those of the author(s) and should not contrued as an official Department of the Army position, policy or decision, unless so designated by other documentation.

14. ABSTRACT

15. SUBJECT TERMS

16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT	15. NUMBER OF PAGES	19a. NAME OF RESPONSIBLE PERSON
a. REPORT	b. ABSTRACT	c. THIS PAGE			Teresa Bandosz
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RPPR Final Report
as of 03-Jan-2019

Agency Code:

Proposal Number: 69986CHRIP **Agreement Number: W911NF-17-1-0167**
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DUNS Number: 603503991 EIN: 131988190
Report Date: 14-Jul-2018 Date Received: 19-Jul-2018
Final Report for Period Beginning 15-Apr-2017 and Ending 14-Apr-2018
Title: Acquisition of High Sensitivity Instruments to Enhance Advanced Recognition of Photocatalytic Activity of Composite Materials as CWA Deactivation and Detection Media
Begin Performance Period: 15-Apr-2017 **End Performance Period:** 14-Apr-2018
Report Term: 0-Other
Submitted By: Teresa Bandosz Email: tbandosz@ccny.cuny.edu
Phone: (212) 650-6017
Distribution Statement: 1-Approved for public release; distribution is unlimited.

STEM Degrees: **STEM Participants:**

Major Goals: A major goal of this proposal was the acquisition of three instrument system (GC/MS Agilent 5977B, Absolute Photoluminescence Quantum Yield Spectrometer Quantaurus- QY and Quantum Efficiency System, IQE-200 B) to enhance the research capabilities, to accomplish scientific and educational objectives of ARO project and to further explore and expand the cutting edge applications of new materials. The research exploring the photoactivity of new complex materials and their applications as sensors was related to ARO FY2016 MURI Topic 8 Fundamental Properties of Energy Flow and Partitioning at Sub-nanoscale Interfaces and to Army interests in reactive systems and materials science.

Accomplishments: The instruments were purchased and delivered but not yet used to full extent due to the lack of research funding

Training Opportunities: The PI and postdoctoral research associates were trained to used the instruments

Results Dissemination: Nothing to Report

Honors and Awards: The PI was invited to write a review paper for Advanced Science:
Origin and Perspectives of the Photochemical Activity of Nanoporous Carbons
T.J. Bandosz, C.O. Ania
Advanced Science (invited review) 2018, 1800293

Protocol Activity Status:

Technology Transfer: Nothing to Report

PARTICIPANTS:

Participant Type: Postdoctoral (scholar, fellow or other postdoctoral position)
Participant: Marc Florent
Person Months Worked: 1.00 **Funding Support:**
Project Contribution:
International Collaboration:
International Travel:

National Academy Member: N
Other Collaborators:

Participant Type: Postdoctoral (scholar, fellow or other postdoctoral position)
Participant: Dimitrios Giannakoudakis
Person Months Worked: 1.00 **Funding Support:**
Project Contribution:
International Collaboration:
International Travel:
National Academy Member: N
Other Collaborators:

Participant Type: PD/PI
Participant: Teresa J Bandosz
Person Months Worked: 1.00 **Funding Support:**
Project Contribution:
International Collaboration:
International Travel:
National Academy Member: N
Other Collaborators:

"Nothing to report in the uploaded pdf (see accomplishments)"