

Volume 15, Number 12 December 25, 2022 ISSN: 1554-0200

# New York Science Journal



**MARSLAND PRESS**  
Multidisciplinary Academic Journal Publisher

Websites:  
<http://www.sciencepub.net/newyork>  
<http://www.sciencepub.net>

Emails:  
[newyorksci@gmail.com](mailto:newyorksci@gmail.com)  
[editor@sciencepub.net](mailto:editor@sciencepub.net)

# New York Science Journal

Marsland Press  
39-06 Main Street, #1608,  
Flushing, NY 11354, USA

Websites:

<http://www.sciencepub.net/newyork>  
<http://www.sciencepub.net>

Emails:

[newyorksci@gmail.com](mailto:newyorksci@gmail.com)  
[editor@sciencepub.net](mailto:editor@sciencepub.net)

Telephones:

(718) 404-5362; (347) 321-7172

Cover design: MA, Hongbao  
Photograph: YOUNG, Mary

Copyright © 2022 Marsland Press

ISSN 1554-0200



9 771554 020004