

# Robert B Balow

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

352  
citations

759233

12  
h-index

794594

19  
g-index

20  
all docs

20  
docs citations

20  
times ranked

505  
citing authors

#	ARTICLE	IF	CITATIONS
1	Battling Chemical Weapons with Zirconium Hydroxide Nanoparticle Sorbent: Impact of Environmental Contaminants on Sarin Sequestration and Decomposition. <i>Langmuir</i> , 2021, 37, 6923-6934.	3.5	8
2	Macroscale evaluation and testing of chemically hydrogenated graphene for hydrogen storage applications. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 2135-2144.	7.1	17
3	Zirconia-Based Aerogels for Sorption and Degradation of Dimethyl Methylphosphonate. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 19584-19592.	3.7	12
4	Photocatalytic CO Oxidation over Nanoparticulate Au-Modified TiO <sub>2</sub> Aerogels: The Importance of Size and Intimacy. <i>ACS Catalysis</i> , 2020, 10, 14834-14846.	11.2	25
5	Kinetics of Dimethyl Methylphosphonate Adsorption and Decomposition on Zirconium Hydroxide Using Variable Temperature In Situ Attenuated Total Reflection Infrared Spectroscopy. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 14662-14671.	8.0	23
6	Enhanced Mechanical Damping in Electrospun Polymer Fibers with Liquid Cores: Applications to Sound Damping. <i>ACS Applied Polymer Materials</i> , 2019, 1, 2068-2076.	4.4	12
7	Surface Chemistry of Sulfur Dioxide on Zr(OH) <sub>4</sub> Powder: The Role of Water. <i>Journal of Physical Chemistry C</i> , 2019, 123, 17205-17213.	3.1	12
8	Conformal Nanoscale Zirconium Hydroxide Films for Decomposing Chemical Warfare Agents. <i>ACS Applied Nano Materials</i> , 2019, 2, 2295-2307.	5.0	19
9	Iodine binding and release from antimicrobial hemostatic polymer foams. <i>Reactive and Functional Polymers</i> , 2019, 135, 44-51.	4.1	17
10	Time resolved characterization of Fabry-Perot quantum cascade lasers for use in a broadband "white light" source. <i>Optics Express</i> , 2019, 27, 32609.	3.4	2
11	Role of annealing atmosphere on the crystal structure and composition of tetrahedrite "tennantite alloy nanoparticles. <i>Journal of Materials Chemistry C</i> , 2018, 6, 10538-10546.	5.5	6
12	Air Activated Self-Decontaminating Polydicyclopentadiene PolyHIPE Foams for Rapid Decontamination of Chemical Warfare Agents. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800194.	3.9	24
13	Rapid Decontamination of Chemical Warfare Agent Simulant with Thermally Activated Porous Polymer Foams. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 8630-8634.	3.7	18
14	Synthesis and Characterization of Cu <sub>3</sub> (Sb <sub>1-x</sub> As <sub>x</sub> )S <sub>4</sub> Semiconducting Nanocrystal Alloys with Tunable Properties for Optoelectronic Device Applications. <i>Chemistry of Materials</i> , 2017, 29, 573-578.	6.7	22
15	Environmental Effects on Zirconium Hydroxide Nanoparticles and Chemical Warfare Agent Decomposition: Implications of Atmospheric Water and Carbon Dioxide. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 39747-39757.	8.0	64
16	Comparative roles of Zr <sup>4+</sup> and Ni <sup>2+</sup> Wells-Dawson hetero-metal substituted polyoxometalates on oxidation of chemical contaminants. <i>Applied Catalysis A: General</i> , 2017, 542, 306-310.	4.3	18
17	Solution-based synthesis and characterization of earth abundant Cu <sub>3</sub> (As,Sb)Se <sub>4</sub> nanocrystal alloys: towards scalable room-temperature thermoelectric devices. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2198-2204.	10.3	17
18	An in situ phosphorus source for the synthesis of Cu <sub>3</sub> P and the subsequent conversion to Cu <sub>3</sub> PS <sub>4</sub> nanoparticle clusters. <i>Journal of Materials Research</i> , 2015, 30, 3710-3716.	2.6	10

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19	Synthesis and Characterization of Copper Arsenic Sulfide Nanocrystals from Earth Abundant Elements for Solar Energy Conversion. <i>Chemistry of Materials</i> , 2015, 27, 2290-2293.	6.7	21
20	Solution-based synthesis and purification of zinc tin phosphide nanowires. <i>Nanoscale</i> , 2015, 7, 19317-19323.	5.6	5