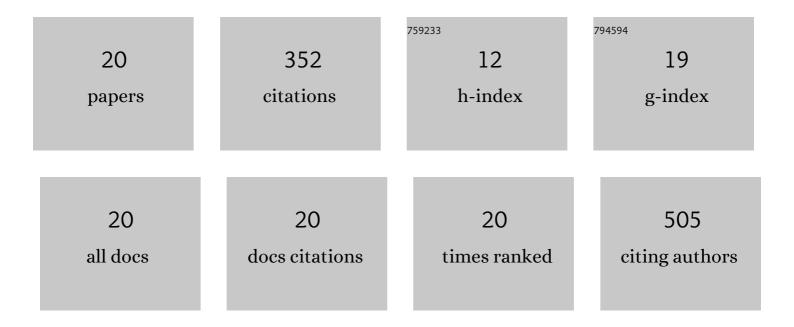
## **Robert B Balow**

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Battling Chemical Weapons with Zirconium Hydroxide Nanoparticle Sorbent: Impact of Environmental Contaminants on Sarin Sequestration and Decomposition. Langmuir, 2021, 37, 6923-6934.	3.5	8
2	Macroscale evaluation and testing of chemically hydrogenated graphene for hydrogen storage applications. International Journal of Hydrogen Energy, 2020, 45, 2135-2144.	7.1	17
3	Zirconia-Based Aerogels for Sorption and Degradation of Dimethyl Methylphosphonate. Industrial & Engineering Chemistry Research, 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. ACS Catalysis, 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. ACS Applied Materials & Interfaces, 2020, 12, 14662-14671.	8.0	23
6	Enhanced Mechanical Damping in Electrospun Polymer Fibers with Liquid Cores: Applications to Sound Damping. ACS Applied Polymer Materials, 2019, 1, 2068-2076.	4.4	12
7	Surface Chemistry of Sulfur Dioxide on Zr(OH) <sub>4</sub> Powder: The Role of Water. Journal of Physical Chemistry C, 2019, 123, 17205-17213.	3.1	12
8	Conformal Nanoscale Zirconium Hydroxide Films for Decomposing Chemical Warfare Agents. ACS Applied Nano Materials, 2019, 2, 2295-2307.	5.0	19
9	lodine binding and release from antimicrobial hemostatic polymer foams. Reactive and Functional Polymers, 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. Optics Express, 2019, 27, 32609.	3.4	2
11	Role of annealing atmosphere on the crystal structure and composition of tetrahedrite–tennantite alloy nanoparticles. Journal of Materials Chemistry C, 2018, 6, 10538-10546.	5.5	6
12	Air Activated Selfâ€Decontaminating Polydicyclopentadiene PolyHIPE Foams for Rapid Decontamination of Chemical Warfare Agents. Macromolecular Rapid Communications, 2018, 39, e1800194.	3.9	24
13	Rapid Decontamination of Chemical Warfare Agent Simulant with Thermally Activated Porous Polymer Foams. Industrial & Engineering Chemistry Research, 2018, 57, 8630-8634.	3.7	18
14	Synthesis and Characterization of Cu <sub>3</sub> (Sb <sub>1–<i>x</i></sub> As <sub><i>x</i></sub> )S <sub>4</sub> Semiconducting Nanocrystal Alloys with Tunable Properties for Optoelectronic Device Applications. Chemistry of Materials, 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. ACS Applied Materials & Interfaces, 2017, 9, 39747-39757.	8.0	64
16	Comparative roles of Zr4+ and Ni2+ Wells-Dawson hetero-metal substituted polyoxometalates on oxidation of chemical contaminants. Applied Catalysis A: General, 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. Journal of Materials Chemistry A, 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. Journal of Materials Research, 2015, 30, 3710-3716.	2.6	10

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