

Occupational Health Alert

Occupational Health Alert issue deals with articles published on different subjects i.e. ***Silicosis, Plastics Bio-degradation & Indoor Air Pollution.***

Full text articles will be provided on request.

Library & Information Officer

Occupational Health Alert

Silicosis

01-11-2019 to 30-12-2019

1.	<u>Assessment of silica dust exposure profile in relation to prevalence of silicosis among Indian sandstone mine workers: Need for review of standards.</u> Dhatrak S, Nandi S. Am J Ind Med. 2019 Nov 26.
2.	<u>Estimated Impact of World Health Organization Latent Tuberculosis Screening Guidelines in a Region With a Low Tuberculosis Incidence: Retrospective Cohort Study.</u> Ronald LA, Campbell JR, Rose C, Balshaw R, Romanowski K, Roth DZ, Marra F, Schwartzman K, Cook VJ, Johnston JC. Clin Infect Dis. 2019 Nov 27;69(12):2101-2108
3.	<u>Functional, inflammatory and interstitial impairment due to artificial stone dust ultrafine particles exposure.</u> Ophir N, Bar Shai A, Korenstein R, Kramer MR, Fireman E. Occup Environ Med. 2019 Dec;76(12):875-879
4.	<u>Interleukin 1α and 1β gene variations are associated with tuberculosis in silica exposed subjects.</u> Salum KCR, de Castro MCS, Moreira VB, Nani ASF, Kohlrausch FB. Am J Ind Med. 2019 Nov 6.
5.	<u>MiR-326 Inhibits Inflammation and Promotes Autophagy in Silica-Induced Pulmonary Fibrosis through Targeting TNFSF14 and PTBP1.</u> Xu T, Yan W, Wu Q, Xu Q, Yuan J, Li Y, Li P, Pan H, Ni C. Chem Res Toxicol. 2019 Nov 18;32(11):2192-2203
6.	<u>Physical and chemical characterization of McIntyre Powder: An aluminum dust inhaled by miners to combat silicosis.</u> Zarnke A, Rasmussen PE, David MO, Eidi H, Kennedy K, Hedges K, Irick T, Thome C, Pirkkanen J, Boreham D. J Occup Environ Hyg. 2019 Nov;16(11):745-756
7.	<u>Silica-associated lung disease: An old-world exposure in modern industries.</u> Barnes H, Goh NSL, Leong TL, Hoy R. Respirology. 2019 Dec;24(12):1165-1175
8.	<u>Stonemasons with silicosis: Preliminary findings and a warning message from Australia.</u> Newbiggin K, Parsons R, Deller D, Edwards R, McBean R. Respirology. 2019 Dec;24(12):1220-1221
9.	<u>Tanshinone IIA attenuates silica-induced pulmonary fibrosis via inhibition of TGF-β1-Smad signaling pathway.</u> Feng F, Li N, Cheng P, Zhang H, Wang H, Wang Y, Wang W. Biomed Pharmacother. 2019 Nov 6;121:109586.
10.	<u>What has been done will be done again.</u> Blanc PD. Respirology. 2019 Dec;24(12):1125-1126.

Plastics Bio-degradation

1.	<p><u>A novel Poly(vinyl alcohol) / carboxymethyl cellulose / yeast double degradable hydrogel with yeast foaming and double degradable property.</u> Zhang M, Wan Y, Wen Y, Li C, Kanwal A. Ecotoxicol Environ Saf. 2020 Jan 15;187:109765</p>
2.	<p><u>Bacterial Candidates for Colonization and Degradation of Marine Plastic Debris.</u> Roager L, Sonnenschein EC. Environ Sci Technol. 2019 Oct 15;53(20):11636-11643</p>
3.	<p><u>Impact of acid type for chitosan dissolution on the characteristics and biodegradability of cornstarch/chitosan based films.</u> Pavoni JMF, Luchese CL, Tessaro IC. Int J BiolMacromol. 2019 Oct 1;138:693-703.</p>
4.	<p><u>Life cycle assessment of carrier bags and development of a littering indicator.</u> Civancik-Uslu D, Puig R, Hauschild M, Fullana-I-Palmer P. Sci Total Environ. 2019 Oct 1;685:621-630</p>
5.	<p><u>Preliminary evaluation of the anaerobic biodegradability of three biobased materials used for the production of disposable plastics.</u> Calabro' PS, Folino A, Fazzino F, Komilis D. J Hazard Mater. 2019 Nov 11:121653</p>
6.	<p><u>Recycling strategies for polyhydroxyalkanoate-based waste materials: An overview.</u> Vu DH, Åkesson D, Taherzadeh MJ, Ferreira JA. Bioresour Technol. 2019 Nov 11:122393</p>
7.	<p><u>Review on plastic wastes in marine environment - Biodegradation and biotechnological solutions.</u> A GK, K A, M H, K S, G D. Mar Pollut Bull. 2019 Nov 22:110733</p>
8.	<p><u>Sampling and degradation of biodegradable plastic and paper mulches in field after tillage incorporation.</u> Ghimire S, Flury M, Scheenstra EJ, Miles CA. Sci Total Environ. 2019 Nov 18:135577</p>
9.	<p><u>Synthesis, Thermal Properties and Decomposition Mechanism of Poly(Ethylene Vanillate) Polyester.</u> Zamboulis A, Papadopoulos L, Terzopoulou Z, Bikiaris DN, Patsiaoura D, Chrissafis K, Gazzano M, Lotti N, Papageorgiou GZ. Polymers (Basel). 2019 Oct 14;11(10)</p>
10.	<p><u>Update and challenges in CO₂-based polycarbonate synthesis.</u> Coulombier OR, Huang J, Worch JC, Dove AP. ChemSusChem. 2019 Nov 25</p>

Indoor Air Pollution

1.	<p><u>A review of contamination status, emission sources, and human exposure to volatile methyl siloxanes (VMSs) in indoor environments.</u> Tran TM, Hoang AQ, Le ST, Minh TB, Kannan K. Sci Total Environ. 2019 Nov 15;691:584-594</p>
2.	<p><u>A Study on the Design Method of Indoor Fine Particulate Matter (PM2.5) Pollution Control in China.</u> Wang Q, Fan D, Zhao L, Wu W. Int J Environ Res Public Health. 2019 Nov 20;16(23).</p>
3.	<p><u>Association of biomass fuel smoke with respiratory symptoms among children under 5 years of age in urban areas: results from Bangladesh Urban Health Survey, 2013.</u> Hasan M, Tasfina S, Haque SMR, Saif-Ur-Rahman KM, Khalequzzaman M, Bari W, Islam SS. Environ Health Prev Med. 2019 Nov 27;24(1):65.</p>
4.	<p><u>Characterization and health risk assessment of indoor dust in biomass and LPG-based households of rural Telangana, India.</u> Yaparla D, Nagendra SMS, Gummadi SN. J Air Waste Manag Assoc. 2019 Dec;69(12):1438-1451.</p>
5.	<p><u>Combined effects of traffic air pollution and home environmental factors on preterm birth in China.</u> Lu C, Cao L, Norbäck D, Li Y, Chen J, Deng Q. Ecotoxicol Environ Saf. 2019 Nov 30;184:109639</p>
6.	<p><u>County-level indoor radon concentration mapping and uncertainty assessment in South Korea using geostatistical simulation and environmental factors.</u> Park NW, Kim Y, Chang BU, Kwak GH. J Environ Radioact. 2019 Nov;208-209:106044</p>
7.	<p><u>Different cardiorespiratory effects of indoor air pollution intervention with ionization air purifier: Findings from a randomized, double-blind crossover study among school children in Beijing.</u> Dong W, Liu S, Chu M, Zhao B, Yang D, Chen C, Miller MR, Loh M, Xu J, Chi R, Yang X, Guo X, Deng F. Environ Pollut. 2019 Nov;254(Pt B):113054</p>
8.	<p><u>Exposure to ultrafine particles in children until 18 years of age: A systematic review.</u> García-Hernández C, Ferrero A, Estarlich M, Ballester F. Indoor Air. 2019 Nov 6</p>
9.	<p><u>Heavy metals in indoor settled dusts in Toronto, Canada.</u> Hejami AA, Davis M, Prete D, Lu J, Wang S. Sci Total Environ. 2019 Nov 2;703:134895.</p>
10.	<p><u>Indoor measurements of air pollutants in residential houses in urban and suburban areas: Indoor versus ambient concentrations.</u> Jeong CH, Salehi S, Wu J, North ML, Kim JS, Chow CW, Evans GJ. Sci Total Environ. 2019 Nov 25;693:133446.</p>
11.	<p><u>Occurrence and human health risks of phthalates in indoor air of laboratories.</u> Feng YX, Feng NX, Zeng LJ, Chen X, Xiang L, Li YW, Cai QY, Mo CH. Sci Total Environ. 2019 Nov 19:135609</p>

12.	<p>Open Fire Ovens and Effects of In-home Lavash Bread Baking on Carbon Monoxide Exposure and Carboxyhemoglobin Levels among Women in Rural Armenia.</p> <p>Tadevosyan A, Mikulski MA, Baber Wallis A, Rubenstein L, Abrahamyan S, Arestakesyan L, Hovsepyan M, Reynolds SJ, Fuortes LJ. Indoor Air. 2019 Nov 14</p>
13.	<p>Positive impact of improved cookstove usage on respiratory health in Congolese refugees: a prospective cohort study.</p> <p>Wolff F, Kothe H, Mubiru A, Gashirabake J, Uwimana I, Dalhoff K. Environ SciPollut Res Int. 2019 Nov 25</p>
14.	<p>Prenatal and early life exposure to indoor air-polluting factors and allergic sensitization at 2 years of age.</p> <p>Gallant MJ, Ellis AK. Ann Allergy Asthma Immunol. 2019 Nov 22. pii: S1081-1206(19)31449-8</p>
15.	<p>Size-fractionated particle-bound heavy metals and perfluoroalkyl substances in dust from different indoor air.</p> <p>Lu X, Cheng Y, Xiang M, Liu T, Guo Y, Wang F. Environ SciPollut Res Int. 2019 Nov 18</p>
16.	<p>Thinking bigger: How early-life environmental exposures shape the gut microbiome and influence the development of asthma and allergic disease.</p> <p>Sbihi H, Boutin RC, Cutler C, Suen M, Finlay BB, Turvey SE. Allergy. 2019 Nov;74(11):2103-2115</p>
17.	<p>Women exposure to household air pollution after an improved cookstove program in rural San Luis Potosi, Mexico.</p> <p>Estévez-García JA, Schilman A, Riojas-Rodríguez H, Berrueta V, Blanco S, Villaseñor-Lozano CG, Flores-Ramírez R, Cortez-Lugo M, Pérez-Padilla R. Sci Total Environ. 2019 Nov 14;702:134456</p>