

KIM, Kwang Jin
University of Nevada, USA

Scholarly Contributions [Data Provided by **SCOPUS**]

[Water droplet evaporation on Cu-based hydrophobic surfaces with nano- and micro-structures](#)
(2012) *International Journal of Heat and Mass Transfer*, 55 (7-8), pp. 2151-2159.

[Electro-chemical operation of ionic polymer-metal composites](#)
(2011) *Sensors and Actuators, B: Chemical*, 155 (1), pp. 106-113.

Kim, S., Kim, K.J.

[Dropwise condensation modeling suitable for superhydrophobic surfaces](#)
(2011) *Journal of Heat Transfer*, 133 (8), art. no. 081502, .

[Effect of supersaturation on the morphology of coated surface in coating by solution crystallization](#)
(2011) *Industrial and Engineering Chemistry Research*, 50 (6), pp. 3475-3482.

[Solubility of forms I and II of clopidogrel hydrogen sulfate in methanol and 2-propanol mixture](#)
(2011) *Journal of Chemical and Engineering Data*, 56 (1), pp. 43-47.

[Effect of metal diffusion on mechanoelectric property of ionic polymer-metal composite](#)
(2010) *Applied Physics Letters*, 97 (24), art. no. 244104, .

[Preparation of anion exchange membranes of cross-linked poly\(\(vinylbenzyl\)trimethylammonium chloride-2-hydroxyethyl methacrylate\)/poly\(vinyl alcohol\)](#)
(2010) *Journal of the Korean Industrial and Engineering Chemistry*, 21 (6), pp. 621-626.

[Pool boiling heat transfer with nano-porous surface](#)
(2010) *International Journal of Heat and Mass Transfer*, 53 (19-20), pp. 4274-4279.

[Disc-shaped ionic polymer metal composites for use in mechano-electrical applications](#)
(2010) *Smart Materials and Structures*, 19 (6), art. no. 065016, .

[Hydrogen compression characteristics of a dual stage thermal compressor system utilizing LaNi₅ and Ca_{0.6}Mm_{0.4}Ni₅ as the working metal hydrides](#)
(2010) *International Journal of Hydrogen Energy*, 35 (11), pp. 5693-5702.

[Ionic polymer-metal composite mechanoelectrical transduction: Review and perspectives](#)
(2010) *Polymer International*, 59 (3), pp. 279-289.

[Dynamic surface tension of heat transfer additives suitable for use in steam condensers and absorbers](#)
(2010) *International Journal of Refrigeration*, 33 (2), pp. 428-434.

[Visualization of the cation migration in ionic polymer-metal composite under an electric field](#)
(2010) *Applied Physics Letters*, 96 (4), art. no. 043301, .

[Simulation study on the reaction process based single stage metal hydride thermal compressor](#)
(2010) *International Journal of Hydrogen Energy*, 35 (1), pp. 321-328.

[Investigation of coupled AB₅ type high-power metal hydride reactors](#)
(2009) *International Journal of Hydrogen Energy*, 34 (14), pp. 5770-5777.

Thermal conductivity measurements of copper-coated metal hydrides (LaNi₅, Ca_{0.6}Mm_{0.4}Ni₅, and LaNi_{4.75}Al_{0.25}) for use in metal hydride hydrogen compression systems

(2009) *International Journal of Hydrogen Energy*, 34 (7), pp. 3185-3190.

Ionic polymer-metal composite as energy harvesters

(2008) *Smart Structures and Systems*, 4 (5), pp. 549-563.

Palladium buffer-layered high performance ionic polymer-metal composites

(2008) *Smart Materials and Structures*, 17 (3), art. no. 035011, .

A self-sensing dielectric elastomer actuator

(2008) *Sensors and Actuators, A: Physical*, 143 (2), pp. 343-351.

A self-oscillating ionic polymer-metal composite bending actuator

(2008) *Journal of Applied Physics*, 103 (8), art. no. 084908, .

Physical principles of ionic polymer-metal composites as electroactive actuators and sensors

(2008) *MRS Bulletin*, 33 (3), pp. 190-195.

A hydrogen-compression system using porous metal hydride pellets of LaNi₅ - x Al_x

(2008) *International Journal of Hydrogen Energy*, 33 (2), pp. 870-877.