

Mazen Al-Ghoul

List of Publications by Year in descending order

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citations

516710

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docs citations

38
times ranked

1522
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlled growth and composition of multivariate metal-organic frameworks-199 via a reaction-diffusion process. <i>Nano Research</i> , 2021, 14, 423-431.	10.4	17
2	Band Propagation, Scaling Laws, and Phase Transition in a Precipitate System III: Effect of the Anions of Precursors. <i>Journal of Physical Chemistry A</i> , 2020, 124, 39-45.	2.5	1
3	Tuning the structural properties of cadmium-aluminum layered double hydroxide for enhanced photocatalytic dye degradation. <i>RSC Advances</i> , 2020, 10, 43066-43074.	3.6	11
4	Liesegang Banding for Controlled Size and Growth of Zeolitic-Imidazolate Frameworks. <i>Small</i> , 2019, 15, e1901605.	10.0	33
5	Simulation of geochemical banding: Theoretical modeling and fractal structure in acidization-diffusion-precipitation dynamics. <i>Physical Review E</i> , 2019, 100, 052214.	2.1	7
6	Crystal Growth of ZIF-8, ZIF-67, and Their Mixed-Metal Derivatives. <i>Journal of the American Chemical Society</i> , 2018, 140, 1812-1823.	13.7	496
7	Metal-Organic Framework-74 for Ultratrace Arsenic Removal from Water: Experimental and Density Functional Theory Studies. <i>ACS Applied Nano Materials</i> , 2018, 1, 3283-3292.	5.0	53
8	Synthesis, size and structural evolution of metal-organic framework-199 via a reaction-diffusion process at room temperature. <i>CrystEngComm</i> , 2017, 19, 608-612.	2.6	33
9	Cadmium-Aluminum Layered Double Hydroxide Microspheres for Photocatalytic CO ₂ Reduction. <i>ChemSusChem</i> , 2016, 9, 800-805.	6.8	30
10	Dynamics and Mechanism of Intercalation/De-Intercalation of Rhodamine B during the Polymorphic Transformation of the CdAl Layered Double Hydroxide to the Brucite-like Cadmium Hydroxide. <i>Crystal Growth and Design</i> , 2016, 16, 4327-4335.	3.0	13
11	Simulation of geochemical banding I: Acidization-precipitation experiments in a ferruginous limestone rock. <i>Chemical Geology</i> , 2016, 440, 42-49.	3.3	15
12	Stability and particle size control of self-assembled cadmium-aluminum layered double hydroxide. <i>CrystEngComm</i> , 2016, 18, 8445-8453.	2.6	10
13	Kinetics of intercalation of fluorescent probes in magnesium-aluminum layered double hydroxide within a multiscale reaction-diffusion framework. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20160138.	3.4	9
14	Self-assembled lanthanum hydroxide microspheres within a reaction-diffusion framework: synthesis, characterization, control and application. <i>RSC Advances</i> , 2016, 6, 3433-3439.	3.6	11
15	Targets, ripples and spirals in a precipitation system with anomalous dispersion. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 19806-19814.	2.8	8
16	Band Propagation, Scaling Laws, and Phase Transition in a Precipitate System. 2. Computational Study. <i>Journal of Physical Chemistry A</i> , 2015, 119, 9201-9209.	2.5	7
17	Surface-functionalized silica aerogels and alcogels for methylene blue adsorption. <i>RSC Advances</i> , 2015, 5, 6111-6122.	3.6	53
18	Transition from rings to spots in a precipitation reaction-diffusion system. <i>RSC Advances</i> , 2014, 4, 60034-60038.	3.6	20

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19	Vertex-based finite volume simulation of Liesegang patterns on structureless meshes. <i>Physical Review E</i> , 2014, 89, 033303.	2.1	6
20	Alternating Metastable/Stable Pattern in the Mercuric Iodide Crystal Formation Outside the Ostwald Rule of Stages. <i>Journal of Physical Chemistry A</i> , 2014, 118, 7725-7731.	2.5	9
21	Superdiffusive Cusp-Like Waves in the Mercuric Iodide Precipitate System and Their Transition to Regular Reaction Bands. <i>Journal of Physical Chemistry A</i> , 2014, 118, 3857-3865.	2.5	8
22	Reaction-Diffusion Framework: The Mechanism of the Polymorphic Transition of \hat{I}^{\pm} - to \hat{I}^2 -Cobalt Hydroxide. <i>Journal of Physical Chemistry A</i> , 2013, 117, 1685-1691.	2.5	11
23	Characterization of internal structure of hydrated agar and gelatin matrices by cryo-SEM. <i>Electrophoresis</i> , 2013, 34, 405-408.	2.4	38
24	Band Propagation, Scaling Laws and Phase Transition in a Precipitate System. I: Experimental Study. <i>Journal of Physical Chemistry A</i> , 2012, 116, 4427-4437.	2.5	34
25	Kinetics and mechanism of ionic intercalation/de-intercalation during the formation of \hat{I}^{\pm} -cobalt hydroxide and its polymorphic transition to \hat{I}^2 -cobalt hydroxide: reaction-diffusion framework. <i>Journal of Materials Chemistry</i> , 2012, 22, 16361.	6.7	34
26	Reaction-diffusion based co-synthesis of stable \hat{I}^{\pm} - and \hat{I}^2 -cobalt hydroxide in bio-organic gels. <i>Journal of Crystal Growth</i> , 2010, 312, 856-862.	1.5	24
27	Pulse-Front Propagation and Interaction During the Growth of CdS Nanoparticles in a Gel. <i>Journal of Physical Chemistry B</i> , 2009, 113, 11594-11603.	2.6	16
28	Cosynthesis, Coexistence, and Self-Organization of \hat{I}^{\pm} - and \hat{I}^2 -Cobalt Hydroxide Based on Diffusion and Reaction in Organic Gels. <i>Journal of Physical Chemistry A</i> , 2008, 112, 7755-7757.	2.5	41
29	Experimental Study of the Dynamics of Front Propagation in the $\text{Co}(\text{OH})_2/\text{NH}_4\text{OH}$ Liesegang System Using Spectrophotometry. <i>Journal of Physical Chemistry A</i> , 2008, 112, 8038-8045.	2.5	10
30	SIMULATION OF GEOCHEMICAL BANDING IN ACIDIZATION-PRECIPIATION EXPERIMENTS IN-SITU. , 2006, , .		4
31	Generalized hydrodynamics and microflows. <i>Physical Review E</i> , 2004, 70, 016301.	2.1	13
32	Generalized hydrodynamics of reaction-diffusion systems and dissipative structures. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2004, 362, 1567-1581.	3.4	6
33	Morphology, Particle Size Distribution, and Composition in One- and Two-Salt Metal Oxinate Liesegang Patterns. <i>Journal of Physical Chemistry B</i> , 2004, 108, 1507-1514.	2.6	26
34	Nonequilibrium partition function in the presence of heat flow. <i>Journal of Chemical Physics</i> , 2001, 115, 8481-8488.	3.0	11
35	Generalized Hydrodynamic Theory of Shock Waves: Mach-Number Dependence of Inverse Shock Width for Nitrogen Gas. <i>Physical Review Letters</i> , 2001, 86, 4294-4297.	7.8	26
36	Hyperbolic Reaction-Diffusion Equations, Patterns, and Phase Speeds for the Brusselator. <i>The Journal of Physical Chemistry</i> , 1996, 100, 18900-18910.	2.9	20

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37	Control of Particle Size and Morphology of MOF-199 Crystals via a Reaction-Diffusion Framework. Defect and Diffusion Forum, 0, 380, 39-47.	0.4	6