



KONA誌 No.35(2018) 目次

<編集記事>

Editor's Preface

巻頭言

Kikuo Okuyama (Editor-in-Chief).....1

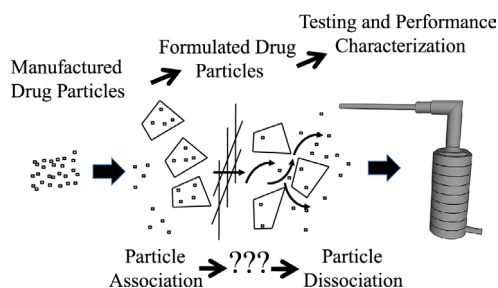


<レビュー論文>

*Complexity in Pharmaceutical Powders for Inhalation:
 A perspective*

吸入用医薬品粉末の複雑さに関する考察

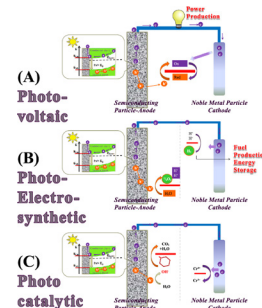
Anthony J. Hickey.....3



*Nanomaterials for Environmental Solar Energy Technologies:
 Applications & Limitations*

環境に優しい太陽エネルギー技術向けのナノ材料の応用と限界

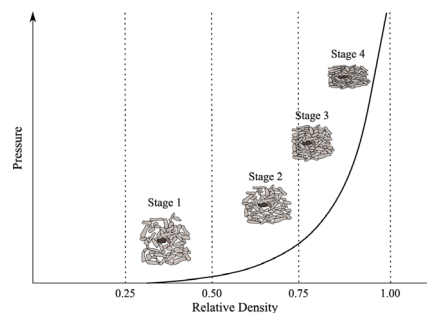
Yiannis Deligiannakis.....14



*Critical Review on Engineering Mechanical Quality of Green
 Compacts using Powder Properties*

粉体特性による圧粉体の工学的な機械品質に関するレビュー

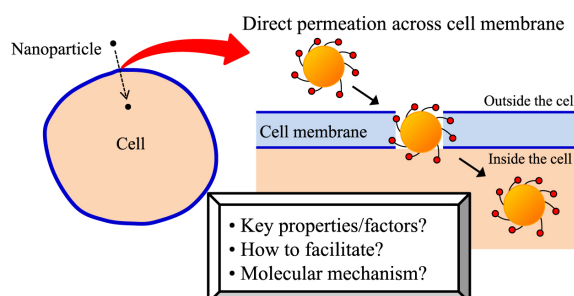
*Hojae Yi, Anuranjan Pandeya,
 Apoorva Karamchandani, and Virendra M. Puri.....32*



*Direct Permeation of Nanoparticles Across Cell
 Membrane: A Review*

ナノ粒子の生体膜直接侵入に関する考察

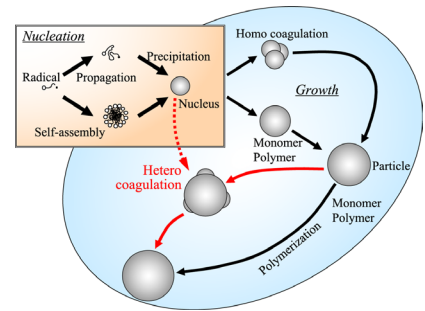
Hideya Nakamura and Satoru Watano.....49
 仲村 英也、綿野 哲



Size Control of Polymeric Particle in Soap-Free Emulsion Polymerization

ソープフリー乳化重合におけるポリマー粒子のサイズ制御

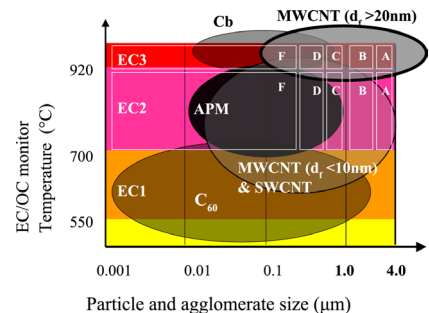
Tetsuya Yamamoto and Ko Higashitani.....66
山本 徹也、東谷 公



Review; Risk Assessment of Aerosolized SWCNTs, MWCNTs, Fullerenes and Carbon Black

エアロゾル化されたカーボンナノチューブ (SWCNT, MWCNT)、フラーレンおよびカーボンブラックのリスク評価に関する考察

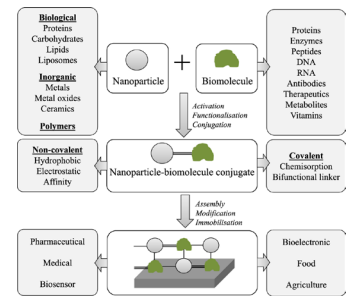
Toshihiko Myojo and Mariko Ono-Ogasawara.....80
明星 敏彦、小野 真理子



Nanoparticles Carrying Biological Molecules: Recent Advances and Applications

生体分子担持ナノ粒子に関する最近の進歩と応用

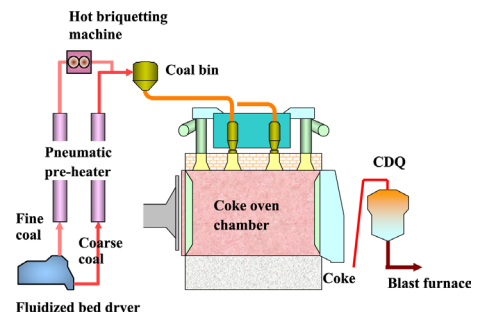
Suryani Saallah and I. Wuled Lenggoro.....89



Leading Edge of Coal Utilization Technologies for Gasification and Cokemaking

ガス化およびコークス製造プロセスにおける石炭資源利用の最新技術

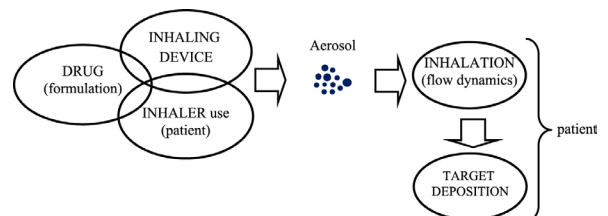
Kenji Kato and Keiji Matsueda.....112
加藤 健次、松枝 恵治



Powder Particles and Technologies for Medicine Delivery to the Respiratory System: Challenges and Opportunities

呼吸器系への医薬品送達のための粉末粒子および技術：課題と可能性

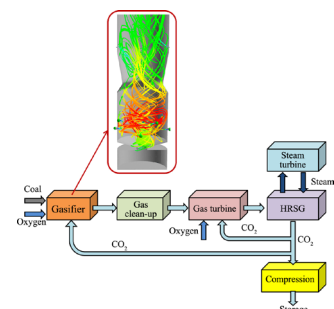
Tomasz R. Sosnowski.....122



Development Tendency and Prospect of High Performance Coal Utilization Power Generation System for Low Carbon Society

低炭素社会のための高性能石炭火力システムの開発動向と展望

Kenji Tanno and Hisao Makino.....139
丹野 賢二、牧野 尚夫

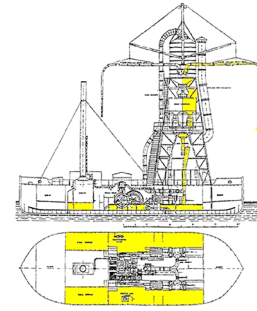


< 特別寄稿 >

Historical Review of Pneumatic Conveying

空気輸送の歴史的レビュー

George E. Klinzing.....150

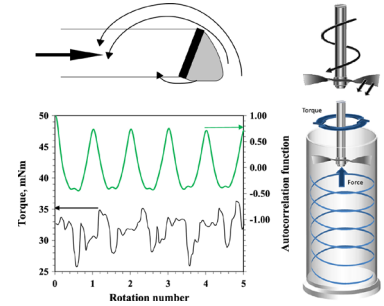


< 研究論文 >

Analysis of the Periodic Motion in a Powder Rheometer and Development of a New Flowability Testing Method

パウダーレオメーターにおける周期運動の解析および新しい粉体流動性試験法の開発

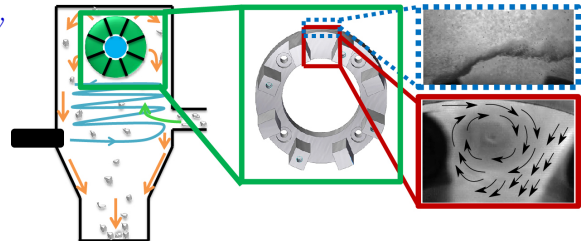
Ming Li, Mikel Leturia and Khashayar Saleh.....160



Separation Characteristics of a Deflector Wheel Classifier in Stationary Conditions and at High Loadings: New Insights by Flow Visualization

定常状態と高負荷時における分級羽根付ロータ型分級機の分離特性：流れの可視化による新しい知見

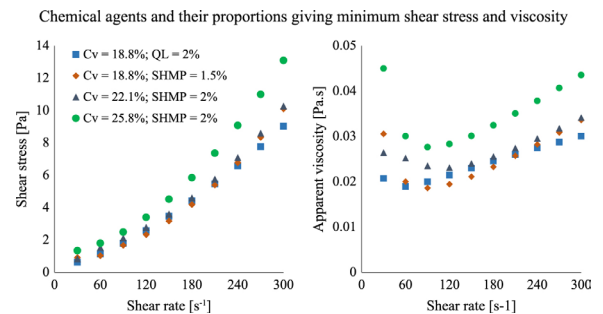
Christian Spötter,
Kurt Legenhausen and Alfred P. Weber.....172



Experimental Investigations of the Effect of Chemical Additives on the Rheological Properties of Highly Concentrated Iron Ore Slurries

高濃度鉄鉱石スラリーのレオロジー特性に及ぼす化学添加剤の影響に関する実験的研究

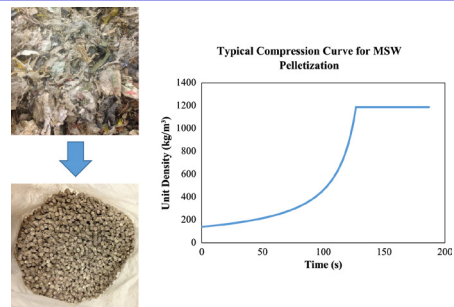
Assefa Kebede Melorie and Deo Raj Kaushal.....186



Compression and Relaxation Properties of Municipal Solid Waste Refuse-Derived Fuel Fluff

都市固形廃棄物燃料フラフの圧縮・緩和特性

Charley Sprenger,
Lope G. Tabil and Majid Soleimani.....200

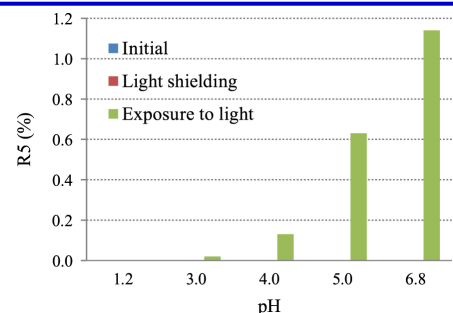


Photostability of Risperidone in Tablets

錠剤中のリスペリドンの光安定性

Yuki Fujisawa, Yoshiteru Takahashi,
Reiko Teraoka and Shuji Kitagawa.....209

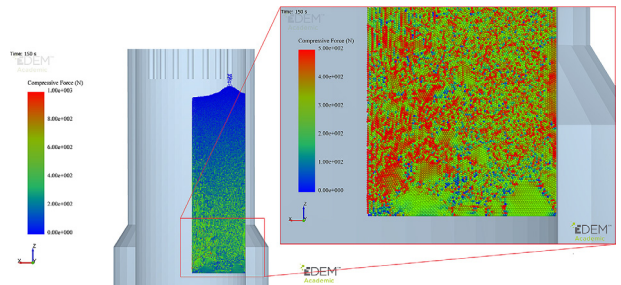
藤澤 祐樹、高橋 嘉輝、寺岡 麗子、北河 修治



Simulation of Mechanical Degradation of Iron Ore Pellets in a Direct Reduction Furnace

直接還元炉における鉄鉱石ペレットの機械的劣化のシミュレーション

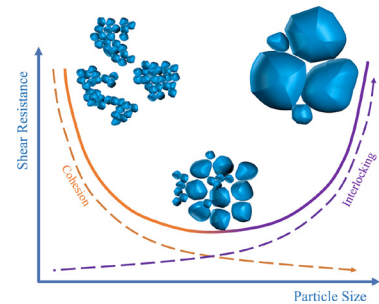
Fernando O. Boechat, Rodrigo M. de Carvalho and Luis Marcelo Tavares.....216



Effect of Particle Size and Cohesion on Powder Yielding and Flow

粉体降伏および流動に及ぼす粒径および凝集の影響

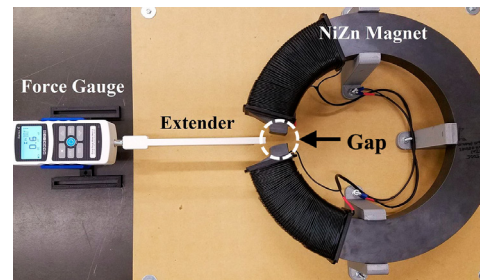
Hao Shi, Rahul Mohanty, Somik Chakravarty, Ramon Cabisco, Martin Morgeneyer, Harald Zetzener, Jin Y. Ooi, Arno Kwade, Stefan Luding and Vanessa Magnanimo.....226



Forces on Particles in Time-Varying Magnetic Fields

時変磁界における粒子に作用する各種力

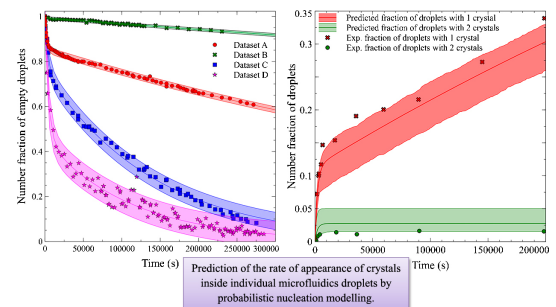
Jaclyn D. Ray, James R. Nagel, Dave Cohrs and Raj K. Rajamani.....251



Applicability of Probabilistic Nucleation Modelling for the Analysis of Microfluidics Data

マイクロ流体解析のための確率論的核生成モデリングの適用可能性

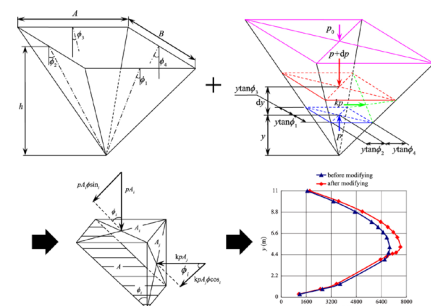
Florent Bourgeois, Sébastien Teychené and Béatrice Biscans.....258



The Friction Stress Distribution of Loose Materials to Silo Walls in Deep Pyramidal Silos

深いピラミッド型サイロ内のサイロ壁に対するルースな材料の摩擦応力分布

Xuwen Wang, Zhaojian Yang and Bo Li.....273



<その他>

Symposium Reports

- The 51st Symposium on Powder Technology

「第 51 回粉体工学に関する講演討論会」283



Symposium Reports

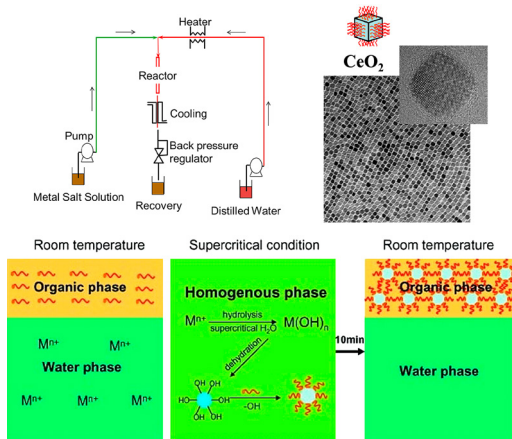
- 2nd International Hosokawa Powder Technology Symposium

「第 2 回国際ホソカワ粉体工学シンポジウム」284



The 24th KONA Award (Awardee: Prof. Dr. Tadafumi Adschiri)

第 24 回 KONA 賞 (受賞者: 阿尻 雅文氏)286



General Information

一般情報287