

大阪大学超高压電子顕微鏡センター 関係発表論文リスト (2012年)

1. In situ TEM observations of electronic-excitation-induced structural transition process in GaSb nanoparticles
H. Yasuda
Conference Proceedings of the Asia-Pacific Microscopy Conference (APMC 10 / ICONN 2012 / ACMM 22), 6-9 Feb., 2012, Perth, Western Australia (2012)
2. Stigmatic condition for electrostatic core-lens by using diagram of axis intercept
R. Nishi and A. Takaoka
Optik, Vol. 123, No. 16, (2012), pp. 1492-1496
3. Addition of energy dispersion characteristics to the diagram of axis intercept for aberration analysis of core-lens
R. Nishi and A. Takaoka
Optik, Vol. 123, No. 19, (2012), pp. 1691-1693
4. Simplified analysis method of electrostatic core-lenses for 3D electron microscopy
R. Nishi and A. Takaoka
Conference Proceedings of the Asia-Pacific Microscopy Conference (APMC 10 / ICONN 2012 / ACMM 22), 6-9 Feb., 2012, Perth, Western Australia (2012)
5. Quasi Gaussian fitting of image sharpnesses for automatic focusing in ultrahigh voltage electron microscopy
R. Nishi, Y. Moriyama, K. Yoshida, N. Kajimura, S. Isakozawa, H. Mogaki, M. Ozawa, and H. Yasuda
Conference Proceedings of the Asia-Pacific Microscopy Conference (APMC 10 / ICONN 2012 / ACMM 22), 6-9 Feb., 2012, Perth, Western Australia (2012)
6. Critical magnification for sample thickness at ultra-HVEM tomography
A. Takaoka and R. Nishi
Conference Proceedings of the Asia-Pacific Microscopy Conference (APMC 10 / ICONN 2012 / ACMM 22), 6-9 Feb., 2012, Perth, Western Australia (2012)
7. Design of an operation support system for the ultrahigh voltage electron tomography
K. Yoshida, R. Nishi, H. Mogaki, S. Isakozawa and H. Yasuda
Conference Proceedings of the Asia-Pacific Microscopy Conference (APMC 10 / ICONN 2012 / ACMM 22), 6-9 Feb., 2012, Perth, Western Australia (2012)
8. Electron-irradiation-induced structural change in Zr-Hf-Nb alloy
T. Nagase, S. Anada, P. D. Rack, J. H. Noh, H. Yasuda, H. Mori, T. Egami
Intermetallics, Vol. 26, (2012), pp. 122-130
9. MeV electron irradiation induced crystallization in metallic glasses: Atomic structure, crystallization mechanism and stability of an amorphous phase under the irradiation
T. Nagase, T. Sanda, A. Nino, W. Qin, H. Yasuda, H. Mori, Y. Umakoshi and J. A. Szpunar
Journal of Non-Crystalline Solids, Vol. 358, No. 8, (2012), pp. 502-518

10. MeV-electron-irradiation-induced Crystal-to-Amorphous-to-Crystal (C-A-C) transition in metallic materials investigated by High Voltage Electron Microscopy (HVEM)
T. Nagase, S. Anada, A. Nino, H. Yasuda, and H. Mori, Y. Umakoshi
Conference Proceedings of the Asia-Pacific Microscopy Conference (APMC 10 / ICONN 2012 / ACMM 22), 6-9 Feb., 2012, Perth, Western Australia (2012)
11. Phase transition of ice I_c to ice XI under electron beam irradiation
K. Kobayashi, and H. Yasuda
Chemical Physics Letters, Vol. 547, (2012), pp. 9-12
12. Study of ballistic gold conductor using ultra-high-vacuum transmission electron microscopy
Y. Oshima
Journal of Electron Microscopy, Vol. 61, (2012), pp. 133-144
13. 超高分解能電子顕微鏡によるリチウム原子の可視化
大島義文, 李少淵, 高柳邦夫
Journal Vacuum Society of Japan, Vol. 55, (2012), pp. 144-151
14. 球面収差補正透過型電子顕微鏡法を用いたアトミックスケールでの構造解析
大島義文, 谷城康真, 田中崇之, 高柳邦夫
日本結晶学会誌, 第 54 巻, (2012), pp. 159-165
15. 収差補正 ABF-STEM 法による Li 原子の直接観察
大島義文, 李少淵, 高柳邦夫
顕微鏡, 第 47 巻, (2012), pp. 144-148
16. 走査電子顕微鏡試料作製と観察時におけるアーティファクト
村中祥悟
HITACHI Scientific Instrument News, Vol. 55, No. 2, (2012), pp. 17-26
17. 大阪大学超高压電子顕微鏡センターにおけるこれまでの共用実績と今後の展開
保田 英洋, 森 博太郎
工業材料, 第 60 巻, 第 8 号, (2012), pp. 36-39
18. 鼎談「新たな産業分野、学問領域をひらく電子顕微鏡技術」
森博太郎、岩崎憲治、木本浩司、山崎裕一郎、長我部信行、佐藤貢
日立評論, 第 94 巻, 第 2 号, (2012), pp. 13-16
19. Detection and *in situ* switching of unreversed interfacial antiferromagnetic spins in a perpendicular-exchange-biased system
Y. Shiratsuchi, H. Noutomi, H. Oikawa, T. Nakamura, M. Suzuki, T. Fujita, K. Arakawa, Y. Takechi, H. Mori, T. Kinoshita, M. Yamamoto, R. Nakatani
Physical Review Letters, Vol. 109, No. 077202, (2012), pp. 077202-1-5
20. Unexpected Pd-catalyzed hydrogenation of phenol into 2-cyclohexene-1-one: enhanced activity and selectivity assisted by molecular oxygen
K. Mori, K. Furubayashi, S. Okada, H. Yamashita
Chemical Communications, Vol. 48, (2012), pp. 8886-8888

21. Hydrogenation of phenol using silica supported Pd and PdAu catalysts in the presence of H₂ and O₂
S. Okada, K. Fujiwara, T. Kamegawa, K. Mori, H. Yamashita
Bulletin of the Chemical Society of Japan, Vol. 85, (2012), pp. 1057-1059
22. Enhanced hydrogenation activity of nano-sized Pd-Ni bimetal particles on Ti-containing mesoporous silica prepared by photo-assisted deposition Method
K. Fuku, T. Sakano, T. Kamegawa, K. Mori, H. Yamashita
Journal of Materials Chemistry, Vol. 22, (2012), pp. 16243-16247
23. Structural design of Pd/SiO₂@Ti-containing mesoporous silica core-shell catalyst for efficient one-pot oxidation using in situ produced H₂O₂
S. Okada, S. Ikurumi, T. Kamegawa, K. Mori, H. Yamashita
Journal of Physical Chemistry C, Vol. 116, (2012), pp. 14360-14367
24. Preparation of size-controlled copper nanoparticles supported catalyst using rapid and uniform heating under microwave irradiation
K. Fuku, S. Takakura, T. Kamegawa, K. Mori, H. Yamashita
Chemistry Letters, Vol. 41, (2012), pp. 614-616
25. Orientation and deformation mechanisms of hot-deformed Nd-Fe-B magnets
R. Kato, Y. Nakazawa, H. Shimizu, M. Kumano, T. Nagase, and H. Y. Yasuda
Proceedings of the 22nd International Workshop on Rare-Earth Permanent Magnets and their Applications (2012), pp. 85-88
26. Switchable MRI contrast agents based on morphological changes of pH-responsive polymers
S. Okada, S. Mizukami, and K. Kikuchi
Bioorganic & Medicinal Chemistry, Vol. 20, (2012), pp. 769-774
27. Ultraviolet photoresponse properties of single-walled carbon nanotubes decorated with thickness-controlled ZnO layer by pulsed laser deposition
K. Itabashi, H. Tabata, W. Wongwiriyapan, S. Minami, K. Matsushita, R. Shimazaki, T. Ueda, T. Ito and M. Katayama
Japanese Journal of Applied Physics, Vol. 51, No. 5, (2012), pp. 055104 1-4
28. Coordinated ciliary beating requires Odf2-mediated polarization of basal bodies via basal feet
K. Kunimoto, Y. Yamazaki, T. Nishida, K. Shinohara, H. Ishikawa, T. Hasegawa, T. Okanoue, H. Hamada, T. Noda, A. Tamura, S. Tsukita, S. Tsukita
Cell, Vol. 148, No. 1-2, (2012), pp. 189-200
29. Ultrastructural observation of human enamel and dentin by ultra-high voltage electron tomography and focus ion beam technique
J. Miura, M. Kubo, T. Nagashima, F. Takeshige
Journal of Electron Microscopy, Vol. 61, No. 5, (2012), pp. 335-341
30. Selective hydrogenolysis of glycerol to 1,3-propanediol catalyzed by Pt nanoparticles-AlO_x/WO₃
T. Mizugaki, T. Yamakawa, R. Arundhathi, T. Mitsudome, K. Jitsukawa, K. Kaneda
Chemistry Letters, Vol. 41, No. 12, (2012), pp. 1720-1722

31. Hydrothermal synthesis of silicon-based hollow nanostructures
S. Sonae, M. Ara, and H. Tada
Japanese Journal of Applied Physics, Vol. 51, (2012), pp. 06FG06-1-3
32. Higher-order architecture of cell adhesion mediated by polymorphic synaptic adhesion molecules neurexin and neuroligin.
H. Tanaka, N. Miyazaki, K. Matoba, T. Nogi, K. Iwasaki, and J. Takagi
Cell Reports, Vol. 2, (2012), pp. 101-110
33. Tilt-angle measurement of a sample stage using a capacitive liquid-based inclinometer.
K. Matoba, J. Takagi, T. Yasunaga, H. Jinnai, and K. Iwasaki.
Journal of Electron Microscopy, Vol. 61, (2012), pp. 193-198
34. Effect of interfacial reaction on electrical conduction across the interface between n-type gallium nitride and contact materials
M. Maeda, T. Yamasaki and Y. Takahashi
Journal of Physics: Conference Series, Vol. 379, (2012), pp. 012020-1-8
35. Study on probe current dependence of the intensity distribution in annular dark field images
S. Kim, Y. Oshima, Y. Tanishiro, K. Takayanagi
Ultramicroscopy, Vol. 121, (2012), pp. 38-41
36. In-situ annular bright-field Imaging of structural transformation of spinel $\text{Li}_x\text{V}_2\text{O}_4$ crystals into defective $\text{Li}_x\text{V}_2\text{O}_4$
S. Lee, Y. Oshima, S. Niitaka, H. Takagi, Y. Tanishiro, and K. Takayanagi
Japanese Journal of Applied Physics, Vol. 51, (2012), pp. 20202-1-3
37. Direct observation of crystallization of HfO_2 promoted on silicon surfaces in gate dielectric stacks
S. Kim, Y. Oshima, N. Nakajima, N. Hashikawa, K. Asayama and K. Takayanagi
Thin Solid Films, Vol. 520, (2012), pp. 2562-2565
38. Surface imaging by ABF-STEM: lithium ions in diffusion channel of LIB electrode materials
S. Lee, Y. Oshima, H. Sawada, F. Hosokawa, E. Okunishi, T. Kaneyama, Y. Kondo, Y. Tanishiro and K. Takayanagi
e-Journal of Surface Science and Nanotechnology, Vol. 10, (2012), pp. 454-458
39. Defect evolution in multiwalled carbon nanotube films irradiated by Ar ions
S. Honda, S. Nanba, Y. Hasegawa, Y. Noshio, A. Tsukagoshi, M. Niibe, M. Terasawa, R. Hirase, H. Izumi, H. Yoshioka, K. Lee, K. Niwase, E. Taguchi and M. Oura
Japanese Journal of Applied Physics, Vol. 51, (2012), pp. 110202-1-3
40. In vitro differentiation of mouse embryonic stem cells into inner ear hair cell-like cells using stromal cell conditioned medium.
Y. Ouji, S. Ishizaka, F. Nakamura-Uchiyama, M. Yoshikawa.
Cell Death and Disease, Vol. 3, No. e314, (2012), pp. 1-10

41. Microscale fluid flow analysis in a human osteocyte canaliculus using a realistic high-resolution image-based three-dimensional model.
H. Kamioka, Y. Kameo, Y. Imai, Astrid D. Bakker, Rommel G. Bacabac, N. Yamada, A. Takaoka, T. Yamashiro, T. Adachi, J. Klein-Nulend.
Integrative Biology, Vol. 4, No. 10, (2012), pp. 1198-1206
42. In situ TEM observation of the collision and subsequent reaction between nanometer-sized dislocation loops
K. Arakawa, T. Amino, and H. Mori
Conference Proceedings of the Asia-Pacific Microscopy Conference (APMC 10 / ICONN 2012 / ACMM 22), 6-9 Feb., 2012, Perth, Western Australia (2012)
43. 2MeV e-irradiation UHVEM study on the impact of O and Ge doping on {113}-defect formation in Si
J. Vanhellefont, H. Yasuda, Y. Tokumoto, Y. Ohno, M. Suezawa and I. Yonenaga
Physica Status Solidi A, Vol. 209, No. 10, (2012), pp. 1902-1907
44. Electron-irradiation-induced phase change in nanometer-sized Al₂Au particles
Jung-Goo Lee and Hirotaro Mori
Surface and Interface Analysis, Vol. 44, (2012), pp. 1527-1530
45. Morphofunctional changes of the astrocyte in rat hippocampus under different corticosteroid conditions
C.Y. Yang, T. Matsuzaki, N. Iijima, N. Kajimura and H. Ozawa
Med Mol Morphol, Vol.45, (2012), pp.206–213
46. Presynaptic Dystroglycan–Pikachurin Complex Regulates the Proper Synaptic Connection between Retinal Photoreceptor and Bipolar Cells
Y. Omori, F. Araki, T. Chaya, N. Kajimura, S. Irie, K. Terada, Y. Muranishi, T. Tsujii, S. Ueno, T. Koyasu, Y. Tamaki, M. Kondo, S. Amano, and T. Furukawa
The Journal of Neuroscience, Vol.32(18), (2012), pp.6126-6137
47. Ultrastructural study of plasmodesmata in the brown alga *Dictyota dichotoma* (Dictyotales, Phaeophyceae)
M. Terauchi, C. Nagasato, N. Kajimura, Y. Mineyuki, K. Okuda, C. Katsaros and T. Motomura
Planta, Vol.236, (2012), pp.1013-1026