

Mizuseki, H; Jin, Y; Kawazoe, Y; Wille, LT

Cluster growth processes by direct simulation Monte Carlo method

Appl. Phys. A-Mater. Sci. Process. 73 (2001) 731 – 735

01-IMR0189

Wang, JT; Wang, DS; Kawazoe, Y

Magnetic phase competing in MnAu systems

Appl. Phys. Lett. 79 (2001) 1507 – 1509

01-IMR0190

Jeong, GH; Hatakeyama, R; Hirata, T; Tohji, K; Motomiya, K; Sato, N; Kawazoe, Y

Structural deformation of single-walled carbon nanotubes and fullerene encapsulation due to magnetized-plasma ion irradiation

Appl. Phys. Lett. 79 (2001) 4213 – 4215

01-IMR0191

Zhou, G; Kawazoe, Y

Application of single-walled carbon nanotube body to unique emitter: a first-principles study

Chem. Phys. Lett. 350 (2001) 386 – 392

01-IMR0192

Guo, Y; Wang, B; Gu, BL; Kawazoe, Y

Asymmetry and separation of spin tunneling time in ZnSe/Zn_{1-x}MnxSe multilayers

Eur. Phys. J. B 23 (2001) 509 – 513

01-IMR0193

Esfarjani, K; Farajian, AA; Ebrahimi, F; Kawazoe, Y

Transport properties of a nanotube-based transistor

Eur. Phys. J. D 16 (2001) 353 – 355

01-IMR0194

Zeng, Z; Mizuseki, H; Simamura, K; Fukuda, T; Higashino, K; Kawazoe, Y

Three-dimensional oscillatory thermocapillary convection in liquid bridge under microgravity

Int. J. Heat Mass Transf. 44 (2001) 3765 – 3774

01-IMR0195

Parlinski, K; Kawazoe, Y; Waseda, Y

Ab initio studies of phonons in CaTiO₃

J. Chem. Phys. 114 (2001) 2395 – 2400

01-IMR0196

Zeng, Z; Mizuseki, H; Shimamura, K; Higashino, K; Fukuda, T; Kawazoe, Y

Marangoni convection in model of floating zone under microgravity

J. Cryst. Growth 229 (2001) 601 – 604

01-IMR0197

Sahara, R; Mizuseki, H; Ohno, K; Kubo, H; Kawazoe, Y

Lattice Monte Carlo simulation with a renormalized potential in Si

J. Cryst. Growth 229 (2001) 610 – 614

01-IMR0198

- Wang, JT; Zhou, L; Wang, DS; Kawazoe, Y
Exchange interaction and magnetic phase transition in layered Fe/Au superlattices
 J. Magn. Magn. Mater. 226 (2001) 633 – 634
 01-IMR0199
-
- Kawazoe, Y; Ohno, K; Esfarjani, K; Maruyama, Y; Shiga, K; Farajian, A
Why the all-electron full-potential approach is suitable for calculations on fullerenes and nanotubes?
 J. Mol. Graph. 19 (2001) 270 – 273
 01-IMR0200
-
- Yu, JZ; Sun, Q; Wang, Q; Kawazoe, Y
Magnetic phase transition and hydrogen solubility in Fe, Co, and Ni
 J. Phase Equilib. 22 (2001) 504 – 507
 01-IMR0201
-
- Majumder, C; Mizuseki, H; Kawazoe, Y
Molecular scale rectifier: Theoretical study
 J. Phys. Chem. A 105 (2001) 9454 – 9459
 01-IMR0202
-
- Sun, Q; Wang, Q; Yu, JZ; Ohno, G; Kawazoe, Y
First-principles studies on pure and doped C-32 clusters
 J. Phys.-Condes. Matter 13 (2001) 1931 – 1938
 01-IMR0204
-
- Katayama-Yoshida, H; Nishimatsu, T; Yamamoto, T; Orita, N
Codoping method for the fabrication of low-resistivity wide band-gap semiconductors in p-type GaN, p-type AlN and n-type diamond: prediction versus experiment
 J. Phys.-Condes. Matter 13 (2001) 8901 – 8914
 01-IMR0206
-
- Berne, C; Sluiter, M; Kawazoe, Y; Pasturel, A
Ordering effects in the Re-W and Re-Ta sigma phases
 J. Phys.-Condes. Matter 13 (2001) 9433 – 9443
 01-IMR0207
-
- Taneda, A; Shimizu, T; Kawazoe, Y
Stable disordered structures of vanadium clusters
 J. Phys.-Condes. Matter 13 (2001) L305 – L312
 01-IMR0205
-
- Chui, ST; Wang, JT; Zhou, L; Esfarjani, K; Kawazoe, Y
Realization of an effective ultrahigh magnetic field on a nanoscale
 J. Phys.-Condes. Matter 13 (2001) L49 – L55
 01-IMR0203
-
- Shishido, T; Kudou, K; Okada, S; Ye, JH; Yoshikawa, A; Sasaki, T; Oku, M; Horiuchi, H; Higashi, I; Kohiki, S; Kawazoe, Y; Nakajima, K
R-dependency of the hardness of perovskite-type RRh₃B compounds (R = La, Gd, Lu and Sc)
 Jpn. J. Appl. Phys. Part 1 – Regul. 40 (2001) 6037 – 6038
 Pap. Short Notes Rev. Pap.
 01-IMR0039
-

Kawazoe, Y				
	<i>How well can physical, chemical, and mechanical properties of materials be predicted by ab initio techniques?</i>			
Mater. Des.	22 (2001)	61 – 67		01-IMR0208
Kawazoe, Y; Kohyama, M				
	<i>Special issue on advances in computational materials science and engineering II – Preface</i>			
Mater. Trans.	42 (2001)	2149 – 2149		01-IMR0214
Ishii, S; Ohno, K; Kawazoe, Y				
	<i>Comparison between the full frequency integration and the GPP model in ab-initio GW calculation of Na clusters</i>			
Mater. Trans.	42 (2001)	2150 – 2152		01-IMR0215
Wang, Q; Sun, Q; Briere, TM; Kawazoe, Y				
	<i>First-principles study of the magic Ar6Fe+ cluster</i>			
Mater. Trans.	42 (2001)	2172 – 2174		01-IMR0216
Kawamura, H; Kumar, V; Sun, Q; Kawazoe, Y				
	<i>Bonding character of hydrogen in aluminum clusters</i>			
Mater. Trans.	42 (2001)	2175 – 2179		01-IMR0217
Belosludov, RV; Takami, S; Kubo, M; Miyamoto, A; Kawazoe, Y				
	<i>Theoretical study on Fe-based metal clusters: Application in heterogeneous catalysis</i>			
Mater. Trans.	42 (2001)	2180 – 2183		01-IMR0218
Shiga, K; Ohno, K; Ohtsuki, T; Kawazoe, Y				
	<i>Formation of N-doped C-60 studied by ab initio molecular dynamics simulations</i>			
Mater. Trans.	42 (2001)	2189 – 2193		01-IMR0219
Belosludov, VR; Inerbaev, TM; Luzhkovskaya, ND; Kawazoe, Y				
	<i>Elastic moduli and absolute stability limits of clathrate hydrates of structure I at positive and negative pressures</i>			
Mater. Trans.	42 (2001)	2194 – 2200		01-IMR0220
Sluiter, MHF; Kawazoe, Y				
	<i>Bondlengths and phase stability of Silicon-Germanium alloys under pressure</i>			
Mater. Trans.	42 (2001)	2201 – 2205		01-IMR0221
Lu, JQ; Chen, H; Wu, J; Mizuseki, H; Kawazoe, Y				
	<i>Ab initio modeling of real molecular logic devices</i>			
Mater. Trans.	42 (2001)	2270 – 2275		01-IMR0222

Majumder, C; Mizuseki, H; Kawazoe, Y

Bipyridinium molecular switch: Ab-initio electronic structure calculation

Mater. Trans. 42 (2001) 2276 – 2278

01-IMR0223

Vannarat, S; Esfarjani, K; Chui, ST; Kawazoe, Y

Effect of elastic interaction on self-assembled island spatial arrangement

Mater. Trans. 42 (2001) 2279 – 2282

01-IMR0224

Jin, Y; Mizuseki, H; Kawazoe, Y

Direct Simulation Monte Carlo for cluster growth process in rarefied gas

Mater. Trans. 42 (2001) 2295 – 2298

01-IMR0225

Zeng, Z; Mizuseki, H; Higashino, K; Shimamura, K; Fukuda, T; Kawazoe, Y

Structure similarity of mixed buoyancy-thermocapillary flow in half-zone liquid bridge

Mater. Trans. 42 (2001) 2322 – 2331

01-IMR0226

Wang, HP; Sluiter, M; Kawazoe, Y

Interfacial segregation of early transition metals in nickel aluminide

Mater. Trans. 42 (2001) 407 – 410

01-IMR0209

Aihara, T; Kaneko, R; Sluiter, MHF; Kawazoe, Y

Molecular dynamics simulation of temperature dependence of dislocation behavior in fcc Ni single crystal under tensile condition

Mater. Trans. 42 (2001) 425 – 428

01-IMR0210

Vannarat, S; Sluiter, MHF; Kawazoe, Y

Strain dependence of solute atom energy in aluminum-rich alloys

Mater. Trans. 42 (2001) 429 – 431

01-IMR0211

Bae, YC; Osanai, H; Ohno, K; Sluiter, M; Kawazoe, Y

All-electron mixed-basis calculation to optimize structures of vanadium clusters

Mater. Trans. 42 (2001) 432 – 434

01-IMR0212

Hongo, K; Mizuseki, H; Kawazoe, Y

A Monte Carlo simulation on the process of cluster deposition

Mater. Trans. 42 (2001) 439 – 442

01-IMR0213

Taghavinia, N; Lerondel, G; Makino, H; Yamamoto, A; Yao, T; Kawazoe, Y; Goto, T

Nanocrystalline Zn₂SiO₄ : Mn²⁺ grown in oxidized porous silicon

Nanotechnology 12 (2001) 547 – 551

01-IMR0227

Guo, Y; Lu, JQ; Zeng, Z; Wang, Q; Gu, BL; Kawazoe, Y <i>Quantum size effect and temperature effect on spin-polarized transport in ZnSe/Zn_{1-x}MnxSe multilayers</i>	Phys. Lett. A	284 (2001)	205 – 215	01-IMR0228
Guo, Y; Wang, B; Gu, BL; Kawazoe, Y <i>Spin-tunneling time in a hybrid semimagnetic/semiconductor heterostructure with a single paramagnetic layer</i>	Phys. Lett. A	291 (2001)	453 – 458	01-IMR0229
Sun, Q; Wang, Q; Yu, JZ; Briere, TM; Kawazoe, Y <i>Structure and interaction mechanism in the magic Al₁₃+H₂O cluster</i>	Phys. Rev. A	64 (2001)	Art. No. 053203 –	01-IMR0230
Kumar, V; Kawazoe, Y <i>Evolution of electronic states and abnormal multishell relaxations in strontium clusters</i>	Phys. Rev. B	63 (2001)	Art. No. 075410 –	01-IMR0231
Yoshihara, A; Wang, JT; Takanashi, K; Himi, K; Kawazoe, Y; Fujimori, H; Grunberg, P <i>Interlayer exchange coupling in fine-layered Fe/Au superlattices</i>	Phys. Rev. B	63 (2001)	Art. No. 100405 –	01-IMR0232
Ishii, S; Ohno, K; Kawazoe, Y; Louie, SG <i>Ab initio GW quasiparticle energies of small sodium clusters by an all-electron mixed-basis approach</i>	Phys. Rev. B	63 (2001)	Art. No. 155104 –	01-IMR0233
Sun, Q; Wang, Q; Yu, JZ; Kumar, V; Kawazoe, Y <i>Real-space representation of electron localization and shell structure in jelliumlike clusters</i>	Phys. Rev. B	63 (2001)	Art. No. 193408 –	01-IMR0234
Guo, Y; Gu, BL; Wang, H; Kawazoe, Y <i>Spin-resonant suppression and enhancement in ZnSe/Zn_{1-x}MnxSe multilayer heterostructures</i>	Phys. Rev. B	63 (2001)	Art. No. 214415 –	01-IMR0235
Suzuki, T; Hasegawa, Y; Li, ZQ; Ohno, K; Kawazoe, Y; Sakurai, T <i>Electron standing-wave observation in the Pd overlayer on Au(111) and Cu(111) surfaces by scanning tunneling microscopy</i>	Phys. Rev. B	64 (2001)	Art. No. 081403 –	01-IMR0103
Kumar, V; Kawazoe, Y <i>Hund's rule in metal clusters: Prediction of high magnetic moment state of Al₁₂Cu from first-principles calculations</i>	Phys. Rev. B	64 (2001)	Art. No. 115405 –	01-IMR0237

- Ohtsuki, T; Ohno, K; Shiga, K; Kawazoe, Y; Maruyama, Y; Shikano, K; Masumoto, K
Formation of Sb- and Te-doped fullerenes by using nuclear recoil and molecular-dynamics simulations
 Phys. Rev. B 64 (2001) Art. No. 125402 –
 01-IMR0238
-
- Berne, C; Sluiter, M; Kawazoe, Y; Hansen, T; Pasture, A
Site occupancy in the Re-W sigma phase
 Phys. Rev. B 64 (2001) Art. No. 144103 –
 01-IMR0239
-
- Guo, Y; Lu, JQ; Gu, BL; Kawazoe, Y
Spin-resonant splitting in magnetically modulated semimagnetic semiconductor superlattices
 Phys. Rev. B 64 (2001) Art. No. 155312 –
 01-IMR0240
-
- Vannarat, S; Sluiter, MHF; Kawazoe, Y
First-principles study of solute-dislocation interaction in aluminum-rich alloys
 Phys. Rev. B 64 (2001) Art. No. 224203 –
 01-IMR0241
-
- Majumder, C; Kumar, V; Mizuseki, H; Kawazoe, Y
Small clusters of tin: Atomic structures, energetics, and fragmentation behavior
 Phys. Rev. B 64 (2001) Art. No. 233405 –
 01-IMR0242
-
- Yamamoto, A; Syouji, A; Goto, T; Kulatov, E; Ohno, K; Kawazoe, Y; Uchida, K; Miura, N
Excitons and band structure of highly anisotropic GaTe single-crystals
 Phys. Rev. B 64 (2001) Art. No.035210 –
 01-IMR0236
-
- Kumar, V; Kawazoe, Y
Metal-encapsulated fullerenelike and cubic caged clusters of silicon
 Phys. Rev. Lett. 87 (2001) Art. No. 045503 –
 01-IMR0243
-
- Nishimatsu, T; Katayama-Yoshida, H; Orita, N
Theoretical study of hydrogen-related complexes in diamond for low-resistive n-type diamond semiconductor
 Physica B 302 (2001) 149 – 154
 01-IMR0244
-
- Ohtsuki, T; Ohno, K; Shiga, K; Kawazoe, Y; Maruyama, T; Shikano, K; Masumoto, K
Formation of new materials in fullerene by using nuclear recoil: Antimony case
 Scr. Mater. 44 (2001) 1575 – 1578
 01-IMR0245
-
- Ohno, K; Kawazoe, Y
Abnormal intermolecular interaction between overlayer C-60 molecules due to induced dipole moments in C-60 thin films adsorbed on substrates
 Scr. Mater. 44 (2001) 1579 – 1582
 01-IMR0246
-

Mizuseki, H; Hongo, K; Kawazoe, Y; Wille, LT

Multiscale simulation of cluster growth and deposition processes by direct simulation Monte Carlo method

Scr. Mater. 44 (2001) 1911 – 1914

01-IMR0247

Kumar, V; Kawazoe, Y

Icosahedral growth and non-metal-metal transition in strontium clusters

Scr. Mater. 44 (2001) 1949 – 1953

01-IMR0248

Wang, Q; Sun, Q; Yu, ZJ; Sakurai, M; Kawazoe, Y

Capacitance of magic Ba-n clusters

Scr. Mater. 44 (2001) 1959 – 1962

01-IMR0249

Ishii, S; Ohno, K; Kawazoe, Y

Ab-initio quasiparticle energies of small sodium clusters by the GW approximation

Scr. Mater. 44 (2001) 1963 – 1966

01-IMR0250

Wang, Q; Sun, Q; Yu, JZ; Kawazoe, Y

Nonmetal-metal transition in Ba-n clusters

Solid State Commun. 117 (2001) 635 – 639

01-IMR0251