

Poster Session / Posterschau

- 01 Energy saving potential for the use of diffusion pumps at high-vacuum brazing furnaces**
U. Zöllig*, H. Schweizer, S. Apfeld

- 02 Micro arc oxidation as a method of the magnesium brazed joint protection**
V. Kezik*

- 03 High temperature joining of ceramics and sapphire by laser-based process**
S. Kasch*, D. Conrad, H. Müller

- 04 Investigation on interface energy transportation and flow behaviour of filler in ultrasonic field**
H. Li*, Z. Li, J. Yan , B. Tao, Y. Geng

- 05 TLP brazing of titanium and steel using silver-copper-filler deposited by arc PVD process**
C. Liu*, W. Tillmann, L. Wojarski

- 06 Reliable design procedure of iron-based braze joints**
S. Puidokas*, K. Bobzin, N. Kopp, W. Tillmann, L. Wojarski, M. Manka, C. Liu

- 07 Corrosion behaviour of ultrasound-assisted resistance soldered magnesium joints**
S. Weis*, B. Wielage

- 08 Low temperature soldering of glass to metal by using metallization layers**
H. Li*, W. Tillmann, L. Wojarski, I. Baumann, F. Hoffmann

- 09 Low-energy thermal joining with zinc base solder for application in vehicle construction**
M. Angerhausen*, U. Reisgen, C. Geffers, F. Prenger, S. Hof, J. Wisniewski, C. Deckert

- 10 Joining of cast superalloy inconel 738 by diffusion brazing**
V. Jalilvand*

- 11 Measured residual stress tensor around interface of brazed Cu/Si₃N₄ related to mechanical properties**
S. Tanaka*, T. Dasai

- 12 Active metal brazing of various metals on nitride ceramics**
A. Pönicke*, A. Rost, J. Schilm, A. Michaelis

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- 13 Reaction product between diamond and manganese powder heated by condensed infrared rays for metallizing**
T. Yamazaki*, H. Tsuda, T. Ikeshoji, A. Suzumura
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- 14 Spot brazing of CP-Ti to stainless steel by combination brazing filler metal**
J. Hayashi*, Y. Miyazawa, T. Ariga
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- 15 Wetting and spreading behaviour of molten brazing filler metal on metallic substrate**
Y. Miyazawa*, S. Kogi, T. Kajiura, T. Ariga
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- 16 Titanium to steel diffusion bonding using spark plasma sintering (SPS) technique**
N. Frage*, A. Miriyev, A. Stern, E. Tuval, S. Kalabukhov, Z. Hooper
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- 17 Ceramic to metal (Kovar) copper brazing for hermetic applications**
H. Macias*, K. Chase
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- 18 Brazing of sapphire windows for hermetic applications in medical devices, rigid endoscopy**
H. Macias*, K. Chase
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- 19 Ageing behaviour of aluminium-copper mixed compounds**
F. Petzoldt*, J. Bergmann, R. Schürer, S. Schneider
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- 20 Brazing of carbon-carbon composites and heat resistance alloy with Nb interlayer**
T. Ikeshoji*, T. Tokunaga, A. Suzumura, T. Yamazaki

Poster Session Industrial co-operative research / Posterschau Industrielle Gemeinschaftsforschung

Projects about the industrial co-operative research are shown. From this publicly sponsored research results are presented about the following subjects:



Gezeigt werden Poster über Vorhaben der industriellen Gemeinschaftsforschung im Rahmen der Forschungsvereinigung und der AiF. Aus dieser öffentlich geförderten Forschung werden Ergebnisse zu den folgenden Themen präsentiert:

Filler wires for laser and arc brazing of aluminium

Z. Tang*, F. Vollertsen, H. Zoch, B. Kuhfuß

Industrial use of reactive air brazing for joining gas-tight ceramic/ceramic and ceramic/metal compounds

S. Wiesner*, K. Bobzin

New Co-based brazing fillers for high-temperature applications

S. Weis*, B. Wielage

Determination of failure criteria of brazed lap joints in a combined corrosion strain test with respect to the used nickel braze and brazing conditions

U. Holländer*, H. Maier

Estimation of fatigue strength at amplitudes of solder-connected thin sheets

C. Wilmes*, A. Esderts, R. Stark, K. Dilger