



DeepGreen JSON Record DOI 10.3390/coatings8090306 Date 07.12.2023 1: Record taken by Thorsten Wetzenstein

```
1
2 {
3
4   id : "ca6f6c7a89544eb2a28097e566ac1b4e",
5   created_date : "2019-08-01T02:06:40Z",
6   analysis_date : "2019-08-01T12:40:21Z",
7   issn_data : "2079-6412",
8   content : {
9     packaging_format : "https://datahub.deepgreen.org/FilesAndJATS"
10  },
11  embargo : {
12    duration : "6"
13  },
14  metadata : {
15    title : "Influence of SiO2 Particles on the Corrosion and Wear
16      Resistance of Plasma Electrolytic Oxidation-Coated AM50 Mg Alloy",
17    publisher : "MDPI",
18    publication_date : "2018-08-29T00:00:00Z",
19    date_accepted : "2018-08-20T00:00:00Z",
20    license_ref : {
21      title : "Open Access",
22      type : "CC BY",
23      url : "https://creativecommons.org/licenses/by/4.0/deed.de",
24      version : "4.0"
25    },
26    identifier : [
27      {
28        type : "issn",
29        id : "2079-6412"
30      },
31      {
32        type : "doi",
33        id : "10.3390/coatings8090306"
34      }
35    ],
36    author : [
37      {
38        name : "Xiaopeng Lu",
39        firstname : "Xiaopeng",
40        lastname : "Lu",
41        affiliation : "Corrosion and Protection Division, Shenyang
42          National Laboratory for Materials Science, Northeastern
43          University, Shenyang 110819, China, luxiaopeng@mail.neu.edu.
44          cn; Key Laboratory for Anisotropy and Texture of Materials (
45          Education Ministry of China), Northeastern University,
46          Shenyang 110004, China, luxiaopeng@mail.neu.edu.cn;
47          Magnesium Innovation Centre (MagIC), Helmholtz-Zentrum
```

Geesthacht, Max-Planck-Str. 1, 21502 Geesthacht, Germany, luxiaopeng@mail.neu.edu.cn; Corrosion and Protection Division, Shenyang National Laboratory for Materials Science, Northeastern University, Shenyang 110819, China, luxiaopeng@mail.neu.edu.cn; Key Laboratory for Anisotropy and Texture of Materials (Education Ministry of China), Northeastern University, Shenyang 110004, China, luxiaopeng@mail.neu.edu.cn; Magnesium Innovation Centre (MagIC), Helmholtz-Zentrum Geesthacht, Max-Planck-Str. 1, 21502 Geesthacht, Germany, luxiaopeng@mail.neu.edu.cn; Corrosion and Protection Division, Shenyang National Laboratory for Materials Science, Northeastern University, Shenyang 110819, China, chenyan2501@hotmail.com; Key Laboratory for Anisotropy and Texture of Materials (Education Ministry of China), Northeastern University, Shenyang 110004, China, chenyan2501@hotmail.com; Magnesium Innovation Centre (MagIC), Helmholtz-Zentrum Geesthacht, Max-Planck-Str. 1, 21502 Geesthacht, Germany, carsten.blawert@hzg.de; Corrosion and Protection Division, Shenyang National Laboratory for Materials Science, Northeastern University, Shenyang 110819, China, liyan93@stumail.neu.edu.cn; Key Laboratory for Anisotropy and Texture of Materials (Education Ministry of China), Northeastern University, Shenyang 110004, China, liyan93@stumail.neu.edu.cn; Corrosion and Protection Division, Shenyang National Laboratory for Materials Science, Northeastern University, Shenyang 110819, China, zhangtao@mail.neu.edu.cn; Key Laboratory for Anisotropy and Texture of Materials (Education Ministry of China), Northeastern University, Shenyang 110004, China, zhangtao@mail.neu.edu.cn; Corrosion and Protection Division, Shenyang National Laboratory for Materials Science, Northeastern University, Shenyang 110819, China, \hfill \break fhwang@mail.neu.edu.cn; Key Laboratory for Anisotropy and Texture of Materials (Education Ministry of China), Northeastern University, Shenyang 110004, China, fhwang@mail.neu.edu.cn; Magnesium Innovation Centre (MagIC), Helmholtz-Zentrum Geesthacht, Max-Planck-Str. 1, 21502 Geesthacht, Germany, karl.kainer@hzg.de; Magnesium Innovation Centre (MagIC), Helmholtz-Zentrum Geesthacht, Max-Planck-Str. 1, 21502 Geesthacht, Germany, mikhail.zheludkevich@hzg.de; Faculty of Engineering, University of Kiel, Kaiserstrasse 2, 24143 Kiel, Germany, mikhail.zheludkevich@hzg.de"

},  
{

name : "Yan Chen",  
firstname : "Yan",  
lastname : "Chen",  
affiliation : "Corrosion and Protection Division, Shenyang National Laboratory for Materials Science, Northeastern University, Shenyang 110819, China, chenyan2501@hotmail.com; Key Laboratory for Anisotropy and Texture of Materials (Education Ministry of China), Northeastern University, Shenyang 110004, China, chenyan2501@hotmail.com; Corrosion

48

```

and Protection Division, Shenyang National Laboratory for
Materials Science, Northeastern University, Shenyang 110819,
China, luxiaopeng@mail.neu.edu.cn; Key Laboratory for
Anisotropy and Texture of Materials (Education Ministry of
China), Northeastern University, Shenyang 110004, China,
luxiaopeng@mail.neu.edu.cn; Magnesium Innovation Centre (
MagIC), Helmholtz-Zentrum Geesthacht, Max-Planck-Str. 1, 2150
2 Geesthacht, Germany, luxiaopeng@mail.neu.edu.cn; Corrosion
and Protection Division, Shenyang National Laboratory for
Materials Science, Northeastern University, Shenyang 110819,
China, chenyan2501@hotmail.com; Key Laboratory for Anisotropy
and Texture of Materials (Education Ministry of China),
Northeastern University, Shenyang 110004, China,
chenyan2501@hotmail.com; Magnesium Innovation Centre (MagIC),
Helmholtz-Zentrum Geesthacht, Max-Planck-Str. 1, 21502
Geesthacht, Germany, carsten.blawert@hzg.de; Corrosion and
Protection Division, Shenyang National Laboratory for
Materials Science, Northeastern University, Shenyang 110819,
China, liyan93@stumail.neu.edu.cn; Key Laboratory for
Anisotropy and Texture of Materials (Education Ministry of
China), Northeastern University, Shenyang 110004, China,
liyan93@stumail.neu.edu.cn; Corrosion and Protection
Division, Shenyang National Laboratory for Materials Science
, Northeastern University, Shenyang 110819, China,
zhangtao@mail.neu.edu.cn; Key Laboratory for Anisotropy and
Texture of Materials (Education Ministry of China),
Northeastern University, Shenyang 110004, China,
zhangtao@mail.neu.edu.cn; Corrosion and Protection Division,
Shenyang National Laboratory for Materials Science,
Northeastern University, Shenyang 110819, China, fhwang@mail
.neu.edu.cn; Key Laboratory for Anisotropy and Texture of
Materials (Education Ministry of China), Northeastern
University, Shenyang 110004, China, fhwang@mail.neu.edu.cn;
Magnesium Innovation Centre (MagIC), Helmholtz-Zentrum
Geesthacht, Max-Planck-Str. 1, 21502 Geesthacht, Germany,
karl.kainer@hzg.de; Magnesium Innovation Centre (MagIC),
Helmholtz-Zentrum Geesthacht, Max-Planck-Str. 1, 21502
Geesthacht, Germany, mikhail.zheludkevich@hzg.de; Faculty of
Engineering, University of Kiel, Kaiserstrasse 2, 24143
Kiel, Germany, mikhail.zheludkevich@hzg.de"

```

49

```
} ,
{
```

50

51

```
name : "Carsten Blawert",
```

52

```
firstname : "Carsten",
```

53

```
lastname : "Blawert",
```

54

```

affiliation : "Magnesium Innovation Centre (MagIC), Helmholtz-
Zentrum Geesthacht, Max-Planck-Str. 1, 21502 Geesthacht,
Germany, carsten.blawert@hzg.de; Corrosion and Protection
Division, Shenyang National Laboratory for Materials Science,
Northeastern University, Shenyang 110819, China,
luxiaopeng@mail.neu.edu.cn; Key Laboratory for Anisotropy and
Texture of Materials (Education Ministry of China),
Northeastern University, Shenyang 110004, China,
luxiaopeng@mail.neu.edu.cn; Magnesium Innovation Centre (

```

MagIC), Helmholtz-Zentrum Geesthacht, Max-Planck-Str. 1, 2150  
2 Geesthacht, Germany, luxiaopeng@mail.neu.edu.cn; Corrosion  
and Protection Division, Shenyang National Laboratory for  
Materials Science, Northeastern University, Shenyang 110819,  
China, chenyan2501@hotmail.com; Key Laboratory for Anisotropy  
and Texture of Materials (Education Ministry of China),  
Northeastern University, Shenyang 110004, China, chenyan2501  
@hotmail.com; Magnesium Innovation Centre (MagIC), Helmholtz-  
Zentrum Geesthacht, Max-Planck-Str. 1, 21502 Geesthacht,  
Germany, carsten.blawert@hzg.de; Corrosion and Protection  
Division, Shenyang National Laboratory for Materials Science,  
Northeastern University, Shenyang 110819, China, liyan93  
@stumail.neu.edu.cn; Key Laboratory for Anisotropy and  
Texture of Materials (Education Ministry of China),  
Northeastern University, Shenyang 110004, China, liyan93  
@stumail.neu.edu.cn; Corrosion and Protection Division,  
Shenyang National Laboratory for Materials Science,  
Northeastern University, Shenyang 110819, China,  
zhangtao@mail.neu.edu.cn; Key Laboratory for Anisotropy and  
Texture of Materials (Education Ministry of China),  
Northeastern University, Shenyang 110004, China,  
zhangtao@mail.neu.edu.cn; Corrosion and Protection Division,  
Shenyang National Laboratory for Materials Science,  
Northeastern University, Shenyang 110819, China, fhwang@mail.  
neu.edu.cn; Key Laboratory for Anisotropy and Texture of  
Materials (Education Ministry of China), Northeastern  
University, Shenyang 110004, China, fhwang@mail.neu.edu.cn;  
Magnesium Innovation Centre (MagIC), Helmholtz-Zentrum  
Geesthacht, Max-Planck-Str. 1, 21502 Geesthacht, Germany,  
karl.kainer@hzg.de; Magnesium Innovation Centre (MagIC),  
Helmholtz-Zentrum Geesthacht, Max-Planck-Str. 1, 21502  
Geesthacht, Germany, mikhail.zheludkevich@hzg.de; Faculty of  
Engineering, University of Kiel, Kaiserstrasse 2, 24143 Kiel,  
Germany, mikhail.zheludkevich@hzg.de"

},  
{

name : "Yan Li",  
firstname : "Yan",  
lastname : "Li",  
affiliation : "Corrosion and Protection Division, Shenyang  
National Laboratory for Materials Science, Northeastern  
University, Shenyang 110819, China, liyan93@stumail.neu.edu.  
cn; Key Laboratory for Anisotropy and Texture of Materials ( Education Ministry of China), Northeastern University,  
Shenyang 110004, China, liyan93@stumail.neu.edu.cn; Corrosion  
and Protection Division, Shenyang National Laboratory for  
Materials Science, Northeastern University, Shenyang 110819,  
China, luxiaopeng@mail.neu.edu.cn; Key Laboratory for  
Anisotropy and Texture of Materials (Education Ministry of  
China), Northeastern University, Shenyang 110004, China,  
luxiaopeng@mail.neu.edu.cn; Magnesium Innovation Centre ( MagIC), Helmholtz-Zentrum Geesthacht, Max-Planck-Str. 1, 2150  
2 Geesthacht, Germany, luxiaopeng@mail.neu.edu.cn; Corrosion  
and Protection Division, Shenyang National Laboratory for

61

```

Materials Science, Northeastern University, Shenyang 110819,
China, chenyan2501@hotmail.com; Key Laboratory for Anisotropy
and Texture of Materials (Education Ministry of China),
Northeastern University, Shenyang 110004, China, chenyan2501
@hotmail.com; Magnesium Innovation Centre (MagIC), Helmholtz-
Zentrum Geesthacht, Max-Planck-Str. 1, 21502 Geesthacht,
Germany, carsten.blawert@hzg.de; Corrosion and Protection
Division, Shenyang National Laboratory for Materials Science,
Northeastern University, Shenyang 110819, China,
liyan93@stumail.neu.edu.cn; Key Laboratory for Anisotropy and
Texture of Materials (Education Ministry of China),
Northeastern University, Shenyang 110004, China, liyan93
@stumail.neu.edu.cn; Corrosion and Protection Division,
Shenyang National Laboratory for Materials Science,
Northeastern University, Shenyang 110819, China,
zhangtao@mail.neu.edu.cn; Key Laboratory for Anisotropy and
Texture of Materials (Education Ministry of China),
Northeastern University, Shenyang 110004, China,
zhangtao@mail.neu.edu.cn; Corrosion and Protection Division,
Shenyang National Laboratory for Materials Science,
Northeastern University, Shenyang 110819, China, fhwang@mail
.neu.edu.cn; Key Laboratory for Anisotropy and Texture of
Materials (Education Ministry of China), Northeastern
University, Shenyang 110004, China, fhwang@mail.neu.edu.cn;
Magnesium Innovation Centre (MagIC), Helmholtz-Zentrum
Geesthacht, Max-Planck-Str. 1, 21502 Geesthacht, Germany,
karl.kainer@hzg.de; Magnesium Innovation Centre (MagIC),
Helmholtz-Zentrum Geesthacht, Max-Planck-Str. 1, 21502
Geesthacht, Germany, mikhail.zheludkevich@hzg.de; Faculty of
Engineering, University of Kiel, Kaiserstrasse 2, 24143
Kiel, Germany, mikhail.zheludkevich@hzg.de"

```

62  
63  
64  
65  
66  
67

```
} ,
{
```

```

name : "Tao Zhang",
firstname : "Tao",
lastname : "Zhang",
affiliation : "Corrosion and Protection Division, Shenyang
National Laboratory for Materials Science, Northeastern
University, Shenyang 110819, China, zhangtao@mail.neu.edu.cn;
Key Laboratory for Anisotropy and Texture of Materials (
Education Ministry of China), Northeastern University,
Shenyang 110004, China, zhangtao@mail.neu.edu.cn; Corrosion
and Protection Division, Shenyang National Laboratory for
Materials Science, Northeastern University, Shenyang 110819,
China, luxiaopeng@mail.neu.edu.cn; Key Laboratory for
Anisotropy and Texture of Materials (Education Ministry of
China), Northeastern University, Shenyang 110004, China,
luxiaopeng@mail.neu.edu.cn; Magnesium Innovation Centre (
MagIC), Helmholtz-Zentrum Geesthacht, Max-Planck-Str. 1, 2150
2 Geesthacht, Germany, luxiaopeng@mail.neu.edu.cn; Corrosion
and Protection Division, Shenyang National Laboratory for
Materials Science, Northeastern University, Shenyang 110819,
China, chenyan2501@hotmail.com; Key Laboratory for Anisotropy
and Texture of Materials (Education Ministry of China),

```

68

```

Northeastern University, Shenyang 110004, China, chenyan2501
@hotmail.com; Magnesium Innovation Centre (MagIC), Helmholtz-
Zentrum Geesthacht, Max-Planck-Str. 1, 21502 Geesthacht,
Germany, carsten.blawert@hzg.de; Corrosion and Protection
Division, Shenyang National Laboratory for Materials Science,
Northeastern University, Shenyang 110819, China, liyan93
@stumail.neu.edu.cn; Key Laboratory for Anisotropy and
Texture of Materials (Education Ministry of China),
Northeastern University, Shenyang 110004, China, liyan93
@stumail.neu.edu.cn; Corrosion and Protection Division,
Shenyang National Laboratory for Materials Science,
Northeastern University, Shenyang 110819, China,
zhangtao@mail.neu.edu.cn; Key Laboratory for Anisotropy and
Texture of Materials (Education Ministry of China),
Northeastern University, Shenyang 110004, China,
zhangtao@mail.neu.edu.cn; Corrosion and Protection Division,
Shenyang National Laboratory for Materials Science,
Northeastern University, Shenyang 110819, China, fhwang@mail
.neu.edu.cn; Key Laboratory for Anisotropy and Texture of
Materials (Education Ministry of China), Northeastern
University, Shenyang 110004, China, fhwang@mail.neu.edu.cn;
Magnesium Innovation Centre (MagIC), Helmholtz-Zentrum
Geesthacht, Max-Planck-Str. 1, 21502 Geesthacht, Germany,
karl.kainer@hzg.de; Magnesium Innovation Centre (MagIC),
Helmholtz-Zentrum Geesthacht, Max-Planck-Str. 1, 21502
Geesthacht, Germany, mikhail.zheludkevich@hzg.de; Faculty of
Engineering, University of Kiel, Kaiserstrasse 2, 24143
Kiel, Germany, mikhail.zheludkevich@hzg.de"

```

69  
70  
71  
72  
73  
74

}  
{

```

name : "Fuhui Wang",
firstname : "Fuhui",
lastname : "Wang",
affiliation : "Corrosion and Protection Division, Shenyang
National Laboratory for Materials Science, Northeastern
University, Shenyang 110819, China, fhwang@mail.neu.edu.cn;
Key Laboratory for Anisotropy and Texture of Materials (
Education Ministry of China), Northeastern University,
Shenyang 110004, China, fhwang@mail.neu.edu.cn; Corrosion and
Protection Division, Shenyang National Laboratory for
Materials Science, Northeastern University, Shenyang 110819,
China, luxiaopeng@mail.neu.edu.cn; Key Laboratory for
Anisotropy and Texture of Materials (Education Ministry of
China), Northeastern University, Shenyang 110004, China,
luxiaopeng@mail.neu.edu.cn; Magnesium Innovation Centre (
MagIC), Helmholtz-Zentrum Geesthacht, Max-Planck-Str. 1, 2150
2 Geesthacht, Germany, luxiaopeng@mail.neu.edu.cn; Corrosion
and Protection Division, Shenyang National Laboratory for
Materials Science, Northeastern University, Shenyang 110819,
China, chenyan2501@hotmail.com; Key Laboratory for Anisotropy
and Texture of Materials (Education Ministry of China),
Northeastern University, Shenyang 110004, China, chenyan2501
@hotmail.com; Magnesium Innovation Centre (MagIC), Helmholtz-
Zentrum Geesthacht, Max-Planck-Str. 1, 21502 Geesthacht,

```

75

```

Germany, carsten.blawert@hzg.de; Corrosion and Protection
Division, Shenyang National Laboratory for Materials Science,
Northeastern University, Shenyang 110819, China, liyan93
@stumail.neu.edu.cn; Key Laboratory for Anisotropy and
Texture of Materials (Education Ministry of China),
Northeastern University, Shenyang 110004, China, liyan93
@stumail.neu.edu.cn; Corrosion and Protection Division,
Shenyang National Laboratory for Materials Science,
Northeastern University, Shenyang 110819, China,
zhangtao@mail.neu.edu.cn; Key Laboratory for Anisotropy and
Texture of Materials (Education Ministry of China),
Northeastern University, Shenyang 110004, China,
zhangtao@mail.neu.edu.cn; Corrosion and Protection Division,
Shenyang National Laboratory for Materials Science,
Northeastern University, Shenyang 110819, China, fhwang@mail
.neu.edu.cn; Key Laboratory for Anisotropy and Texture of
Materials (Education Ministry of China), Northeastern
University, Shenyang 110004, China, fhwang@mail.neu.edu.cn;
Magnesium Innovation Centre (MagIC), Helmholtz-Zentrum
Geesthacht, Max-Planck-Str. 1, 21502 Geesthacht, Germany,
karl.kainer@hzg.de; Magnesium Innovation Centre (MagIC),
Helmholtz-Zentrum Geesthacht, Max-Planck-Str. 1, 21502
Geesthacht, Germany, mikhail.zheludkevich@hzg.de; Faculty of
Engineering, University of Kiel, Kaiserstrasse 2, 24143
Kiel, Germany, mikhail.zheludkevich@hzg.de"

```

76

77

78

79

80

81

```

},
{

```

```

name : "Karl Ulrich Kainer",
firstname : "Karl Ulrich",
lastname : "Kainer",
affiliation : "Magnesium Innovation Centre (MagIC), Helmholtz-
Zentrum Geesthacht, Max-Planck-Str. 1, 21502 Geesthacht,
Germany, karl.kainer@hzg.de; Corrosion and Protection
Division, Shenyang National Laboratory for Materials Science,
Northeastern University, Shenyang 110819, China,
luxiaopeng@mail.neu.edu.cn; Key Laboratory for Anisotropy and
Texture of Materials (Education Ministry of China),
Northeastern University, Shenyang 110004, China,
luxiaopeng@mail.neu.edu.cn; Magnesium Innovation Centre (
MagIC), Helmholtz-Zentrum Geesthacht, Max-Planck-Str. 1, 2150
2 Geesthacht, Germany, luxiaopeng@mail.neu.edu.cn; Corrosion
and Protection Division, Shenyang National Laboratory for
Materials Science, Northeastern University, Shenyang 110819,
China, chenyan2501@hotmail.com; Key Laboratory for Anisotropy
and Texture of Materials (Education Ministry of China),
Northeastern University, Shenyang 110004, China, chenyan2501
@hotmail.com; Magnesium Innovation Centre (MagIC), Helmholtz-
Zentrum Geesthacht, Max-Planck-Str. 1, 21502 Geesthacht,
Germany, carsten.blawert@hzg.de; Corrosion and Protection
Division, Shenyang National Laboratory for Materials Science,
Northeastern University, Shenyang 110819, China, liyan93
@stumail.neu.edu.cn; Key Laboratory for Anisotropy and
Texture of Materials (Education Ministry of China),
Northeastern University, Shenyang 110004, China, liyan93

```

@stumail.neu.edu.cn; Corrosion and Protection Division, Shenyang National Laboratory for Materials Science, Northeastern University, Shenyang 110819, China, zhangtao@mail.neu.edu.cn; Key Laboratory for Anisotropy and Texture of Materials (Education Ministry of China), Northeastern University, Shenyang 110004, China, zhangtao@mail.neu.edu.cn; Corrosion and Protection Division, Shenyang National Laboratory for Materials Science, Northeastern University, Shenyang 110819, China, fhwang@mail.neu.edu.cn; Key Laboratory for Anisotropy and Texture of Materials (Education Ministry of China), Northeastern University, Shenyang 110004, China, fhwang@mail.neu.edu.cn; Magnesium Innovation Centre (MagIC), Helmholtz-Zentrum Geesthacht, Max-Planck-Str. 1, 21502 Geesthacht, Germany, karl.kainer@hzg.de; Magnesium Innovation Centre (MagIC), Helmholtz-Zentrum Geesthacht, Max-Planck-Str. 1, 21502 Geesthacht, Germany, mikhail.zheludkevich@hzg.de; Faculty of Engineering, University of Kiel, Kaiserstrasse 2, 24143 Kiel, Germany, mikhail.zheludkevich@hzg.de"

},  
{

name : "Mikhail Zheludkevich",  
firstname : "Mikhail",  
lastname : "Zheludkevich",  
affiliation : "Magnesium Innovation Centre (MagIC), Helmholtz-Zentrum Geesthacht, Max-Planck-Str. 1, 21502 Geesthacht, Germany, mikhail.zheludkevich@hzg.de; Faculty of Engineering, University of Kiel, Kaiserstrasse 2, 24143 Kiel, Germany, mikhail.zheludkevich@hzg.de; Corrosion and Protection Division, Shenyang National Laboratory for Materials Science, Northeastern University, Shenyang 110819, China, luxiaopeng@mail.neu.edu.cn; Key Laboratory for Anisotropy and Texture of Materials (Education Ministry of China), Northeastern University, Shenyang 110004, China, luxiaopeng@mail.neu.edu.cn; Magnesium Innovation Centre (MagIC), Helmholtz-Zentrum Geesthacht, Max-Planck-Str. 1, 21502 Geesthacht, Germany, luxiaopeng@mail.neu.edu.cn; Corrosion and Protection Division, Shenyang National Laboratory for Materials Science, Northeastern University, Shenyang 110819, China, chenyan2501@hotmail.com; Key Laboratory for Anisotropy and Texture of Materials (Education Ministry of China), Northeastern University, Shenyang 110004, China, chenyan2501@hotmail.com; Magnesium Innovation Centre (MagIC), Helmholtz-Zentrum Geesthacht, Max-Planck-Str. 1, 21502 Geesthacht, Germany, carsten.blawert@hzg.de; Corrosion and Protection Division, Shenyang National Laboratory for Materials Science, Northeastern University, Shenyang 110819, China, liyan93@stumail.neu.edu.cn; Key Laboratory for Anisotropy and Texture of Materials (Education Ministry of China), Northeastern University, Shenyang 110004, China, liyan93@stumail.neu.edu.cn; Corrosion and Protection Division, Shenyang National Laboratory for Materials Science, Northeastern University, Shenyang 110819, China, zhangtao@mail.neu.edu.cn; Key Laboratory for Anisotropy and



Texture of Materials (Education Ministry of China),  
Northeastern University, Shenyang 110004, China,  
zhangtao@mail.neu.edu.cn; Corrosion and Protection Division,  
Shenyang National Laboratory for Materials Science,  
Northeastern University, Shenyang 110819, China, fhwang@mail.  
neu.edu.cn; Key Laboratory for Anisotropy and Texture of  
Materials (Education Ministry of China), Northeastern  
University, Shenyang 110004, China, fhwang@mail.neu.edu.cn;  
Magnesium Innovation Centre (MagIC), Helmholtz-Zentrum  
Geesthacht, Max-Planck-Str. 1, 21502 Geesthacht, Germany,  
karl.kainer@hzg.de; Magnesium Innovation Centre (MagIC),  
Helmholtz-Zentrum Geesthacht, Max-Planck-Str. 1, 21502  
Geesthacht, Germany, mikhail.zheludkevich@hzg.de; Faculty of  
Engineering, University of Kiel, Kaiserstrasse 2, 24143 Kiel,  
Germany, mikhail.zheludkevich@hzg.de"

```
88     }  
89     ],  
90     subject : [  
91     "magnesium",  
92     "plasma electrolytic oxidation",  
93     "SiO<sub>2</sub> particle",  
94     "corrosion resistance",  
95     "wear resistance"  
96     ]  
97 },  
98 links : [  
99 {  
100     type : "package",  
101     format : "application/zip",  
102     url : "https://www.oa-deepgreen.de/api/v1/notification/ca6f6c7a89544eb2  
103         a28097e566ac1b4e/content",  
104     packaging : "https://datahub.deepgreen.org/FilesAndJATS"  
105     },  
106     {  
107     type : "package",  
108     format : "application/zip",  
109     url : "https://www.oa-deepgreen.de/api/v1/notification/ca6f6c7a89544eb2  
110         a28097e566ac1b4e/content/SimpleZip.zip",  
111     packaging : "http://purl.org/net/sword/package/SimpleZip"  
112     },  
113     {  
114     type : "package",  
115     format : "application/zip",  
116     url : "https://www.oa-deepgreen.de/api/v1/notification/ca6f6c7a89544eb2  
117         a28097e566ac1b4e/content/ESciDoc.zip",  
118     packaging : "http://purl.org/net/sword/package/ESciDoc"  
119     }  
120     ],  
121     request_status : null  
122 }
```

***note:***

This is the PDF representation of file doc\_rec\_deep\_greenjson with  
md5 9a4614bfbf3cabd7e16a2fd17f56da3a

This file is part of zip container with DOI 10.57892/100-36