

# Publications Table 1963-June 2020

<b>Peter Paufler</b>	
No.	Publications in scientific journals (updated Mar 2020)
1	Schulze, G.E.R., Ullrich, H.-J., Paufler, P.: Über den gegenseitigen Ausschluß intermetallischer Phasen in binären Systemen. Naturwissenschaften <b>5</b> (1963)515-516
2	Kirsten, Ch., Paufler, P., Schulze, G.E.R.: Zur plastischen Verformung intermetallischer Verbindungen. Monatsber. Deutsch.Akad.Wiss. Berlin <b>8</b> (1964)140-147
3	Paufler, P., Schulze, G.E.R.: Zwillingsbildung in MgZn <sub>2</sub> . Naturwissenschaften <b>54</b> (1967)69
4	Paufler, P., Schulze, G.E.R.: Zur Zwillingsbildung in MgZn <sub>2</sub> . Kristall und Technik <b>2</b> (1967)231-244
5	Paufler, P., Schulze, G.E.R.: Plastic deformation of the intermetallic compound MgZn <sub>2</sub> . phys.stat.sol. <b>24</b> (1967)77-87
6	Paufler, P., Schulze, G.E.R.: Gleitsysteme intermetallischer Verbindungen. Kristall und Technik <b>2</b> (1967)K11-14
7	Paufler, P.: Kompression von Einkristallen der intermetallischen Verbindung MgZn <sub>2</sub> . Monatsber.d.Deutschen Akademie der Wiss. Berlin <b>9</b> (1967)616-627
8	Paufler, P., Schulze, G.E.R.: Zum Ätzen von Versetzungen in MgZn <sub>2</sub> . Kristall und Technik <b>3</b> (1968)113-124
9	Paufler, P.: Versetzungsbewegung als Elementarprozeß des Gleitvorganges in Kristallen. Wiss.Zeitschr. d.TU Dresden <b>17</b> (1968)793-799
10	Paufler, P., Schulze, G.E.R.: Wechselbeziehung zwischen Kristallstruktur und plastischen Eigenschaften. Monatsber.d.Deutschen Akademie d.Wiss. Berlin <b>11</b> (1969)426-440
11	Paufler, P., Wieser, E., Kleinstück, K., Schulze, G.E.R.: Anwendung des Mössbauereffekts in der Metallphysik. Exper.Techn. Physik <b>17</b> (1969)459-475
12	Hinz, D., Paufler, P., Schulze, G.E.R.: Temperature change experiments during secondary creep of the intermetallic

	compound MgZn <sub>2</sub> . phys.stat.sol. <b>36</b> (1969)609-615
13	Paufler, P., Schulze, G.E.R.: Zum Einfluß der Biegung auf den Schubversuch. Exp.Techn. Physik <b>17</b> (1969)543-552
14	Paufler, P., Schulze, G.E.R.: Advances in the field of mechanical properties of intermetallic compounds at the Department of Physics of the Technical University, Dresden. Monatsber. d.Deutschen Akademie d.Wiss. Berlin <b>12</b> (1970)67-82
15	Paufler, P., Eichler, K., Schulze, G.E.R.: Einfluß der Abweichungen von der Stöchiometrie intermetallischer Verbindungen auf deren plastische Verformbarkeit. Monatsber.d.Deutschen Akademie d.Wiss. Berlin <b>12</b> (1970)950-958
16	Tschapek, A., Paufler, P., Schulze, G.E.R.: Vyjavlenie dislokacionnyh setok v intermetalliceskom soedinenii MgZn <sub>2</sub> pri poslojnom travlenii. Kristallografija <b>15</b> (1970)1256-1258
17	Paufler, P., Marschner, J., Schulze, G.E.R.: The mobility of grown-in dislocations in the intermetallic compound MgZn <sub>2</sub> . I. Stress dependence for edge dislocations in prism slip at 390°C. phys.stat.sol. <b>40</b> (1970) 573-579
18	Günzel, R., Paufler, P., Schulze, G.E.R.: Zn <sup>65</sup> -Diffusion in der intermetallischen Verbindung MgZn <sub>2</sub> . In: Diffusion in metallischen Werkstoffen, Deutscher Verlag für Grundstoffindustrie, Leipzig 1970, S.183-189
19	Paufler, P., Marschner, J., Schulze, G.E.R.: The mobility of grown-in dislocations in the intermetallic compound MgZn <sub>2</sub> . II. Stress dependence of basal slip at 390°C. phys.stat.sol.(b) <b>43</b> (1971)279-282
20	Paufler, P., Schulze, G.E.R.: Über einige physikalische Eigenschaften von Laves-Phasen, insbesondere MgZn <sub>2</sub> (Mit einem Anhang: Zur Bezeichnung 'Laves-Phasen'). Z.f.Kristallographie <b>133</b> (1971) 7-17
21	Eichler, K., Siegel, S., Kubsch, H., Paufler, P.: Über das Verhalten einiger physikalischer Meßgrößen im Homogenitätsbereich von MgZn <sub>2</sub> . Wiss. Zeitschr. d.TU Dresden <b>20</b> (1971) 399-402
22	Schulze, G.E.R., Paufler, P.: Die plastische Verformung 'spröder' intermetallischer Verbindungen und ihre Elementarprozesse. Abh. d.Sächs. Akad. d. Wiss. Leipzig <b>51</b> (1972), H.5, S.1-24
23	Paufler, P., Eichler, K., Siegel, S., Schulze, G.E.R.: Messungen zur Elektronenstruktur der intermetallischen Verbindung MgZn <sub>2</sub> .

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24	Paufler,P.: Comments on the behaviour of dislocations in intermetallic compounds at low homologous temperatures. phys.stat.sol.(b) 52 (1972) K65-67
25	Müller,Th., Krahl,H., Paufler,P., Lamsa,A., Schulze,G.E.R.: Gleitbanduntersuchungen während und nach Verformung der intermetallischen Verbindung MgZn <sub>2</sub> . Kristall und Technik 7 (1972) 1249-1264
26	Kubsch,H., Paufler,P., Schulze, G.E.R.: The mobility of grown-in dislocations in the intermetallic compound MgZn <sub>2</sub> . III. Dependence of basal slip on chemical composition within the homogeneity range and on temperature. phys.stat.sol. (b) 56 (1973) 231-234
27	Schulze,G.E.R., Leitner,G., Paufler,P.: On Laves phase families containing lanthanides and other metals. In: Redkozemel'nie metally, splavy i soedinenija. Izd. Nauka, Moskva 1973, S.137-142
28	Paufler,P.: Einfluß der Realstruktur auf einige Eigenschaften von Supraleitern. Kristall und Technik 9(1974)533-550
29	Kubsch, H., Paufler,P., Schulze,G.E.R.: The mobility of grown-in dislocations in the intermetallic compound MgZn <sub>2</sub> during prismatic slip. phys.stat.sol.(a) 25 (1974) 259-275
30	Kubsch,H., Paufler,P., Schulze,G.E.R.: On the comparison between grown-in and fresh dislocations in the intermetallic compound MgZn <sub>2</sub> . phys.stat.sol. (a) 24 (1974) K53-54
31	Paufler,P., Schulze,G.E.R.: Physikalische Untersuchungen zur plastischen Verformung intermetallischer Verbindungen. In:Neuere Entwicklungen der Physik. Herausg.v. P.Görlich, A.Eckardt, P.Kunze. Deutscher Verlag d.Wiss. Berlin 1974, S.254-263
32	Eschrig,H., Feldmann;K., Försterling,G., Hennig;K., John,W., Paufler,P., Weiß,L., Ziesche,P.: Lattice dynamics and phase transitions in Laves-phase intermetallic compounds. In: The Second Conference of the Condensed Matter Division of the European Physical Society on Dielectrics and Phonons.Budapest 1974,Oct 21-25, 248410
33	Siegel,S.,Paufler,P., Schulze,G.E.R.: On grain-boundary sliding during creep of the intermetallic compound MgZn <sub>2</sub> . Kristall und Technik 9 (1974) K101-102

34	<p>Paufler,P.:  Point symmetry of crystals containing a straight edge dislocation.  Kristall und Technik 10 (1975) 829-834</p>
35	<p>Paufler,P.:  Point symmetry of crystals containing a straight screw dislocation.  Kristall und Technik 11 (1976) 607-613</p>
36	<p>Eichler,K., Kubsch,H., Müller,Th., Paufler,P.:  Änderung von Verformungseigenschaften der intermetallischen Verbindung MgZn<sub>2</sub>  im Homogenitätsbereich.  Kristall und Technik 11 (1976) 1185-1188</p>
37	<p>Lange,F., Berthel,K.-H., Paufler,P.:  Ergebnisse komplexer Untersuchungen an V<sub>3</sub>Si-Einkristallen zum Problem der  Sprungtemperatur.  In: 4.Int.Symposium 'Reinstoffe in Wissenschaft und Technik', Dresden 14.10.-  17.10.1975, Akademie-Verlag Berlin 1977, 513-522</p>
38	<p>Paufler,P.:  Plastizität intermetallischer Phasen.  In: 'Intermetallische Phasen'. Deutscher Verlag für Grundstoffindustrie, Leipzig 1977,  165-187</p>
39	<p>Eschrig,H., Feldmann,K., Hennig,K., Matz,W., Paufler,P.:  Phonon spectra of the Laves phase intermetallic compound CaMg<sub>2</sub>.  phys.stat.sol. (b) 79 (1977) 283-288; s.auch Preprint VIK Dubna 1976, E14-9855</p>
40	<p>Müller,Th., Paufler,P.:  Yield strength of the monocrystalline intermetallic compound MgZn<sub>2</sub>.  phys.stat.sol. (a) 40 (1977) 471-477</p>
41	<p>Paufler,P., Zedler,E., Ullrich,H.-J., Berthel,K.-H., Krämer,U., Jurisch,M., Richter,K.,  Eichler,K.:  Influence of chemical composition within the range of homogeneity on phase transition  and transition temperature of V<sub>3</sub>Si single crystals. II. On the defect structure of V<sub>3</sub>Si  single crystals.  phys.stat.sol. (a) 44 (1977) 499-504</p>
42	<p>Savickij, E.M., Efimov,J.V., Eichler,K., Paufler,P.:  Zur Bildungsweise und zum Homogenitätsbereich der intermetallischen Verbindung  V<sub>3</sub>Si.  Wiss. Zeitschr. der TU Dresden 27 (1978) 673-674</p>
43	<p>Paufler,P.:  A crystallographic interpretation of atomic volumes in Cr<sub>3</sub>Si-type (A-15) phases.  Kristall und Technik 13 (1978) 459-462</p>
44	<p>Paufler,P.:  Deformation-mechanism maps of the intermetallic compound MgZn<sub>2</sub>.  Kristall und Technik 13 (1978)587-590</p>

45	<p>Paufler,P.:  On the range of homogeneity of A-15 compounds.  Kristall und Technik 13 (1978)K75-K76</p>
46	<p>Ullrich,H.-J., Däbritz,S., Reinhold,U., Paufler,P., Kleinstück,K., Pietraß,B.:  Nachweis einer neuen Tieftemperaturphase von V<sub>3</sub>Si mittels Kossel-Interferenzen.  In: Beiträge zur 4.Tagung Mikrosonde, 26.-28.1.1978, Dresden. Herausg. von der  Physikalischen Gesellschaft der DDR, S.167</p>
47	<p>Ullrich,H.-J., Reinhold,U., Däbritz,S., Paufler,P., Kleinstück,K., Pietraß,B.:  On the lattice transformation in plastically deformed V<sub>3</sub>Si single crystals studied by the  Kossel technique.  phys.,stat.sol. (a) 40 (1978) 323-330</p>
48	<p>Paufler,P.:  Use of the radical plane construction to derive effective atomic radii in Cr<sub>3</sub>Si  compounds.  Kristall und Technik 14 (1979) K9-K12</p>
49	<p>Quyen, N.H., Paufler,P., Berthel,K.-H., Bertram,M., Krämer,U., Nghiep, D.M., San  Martin, A., Gladun,A., Kleinstück,K.:  Influence of plastic deformation on superconducting properties of V<sub>3</sub>Si single crystals.  phys.stat.sol. (a) 56 (1979) 231-235</p>
50	<p>Paufler,P., Pompe,W., Schmidt,G.K., Schulze,D.:  Zum mechanischen Verhalten von Festkörpern.  In: Wiss.Berichte des Zentralinstituts für Festkörperphysik und Werkstofforschung der  Akademie d.Wiss. (DDR) Nr.15 (1979) 23-30</p>
51	<p>Berthel,K.-H., Bertram,M., Däbritz,S., Elefant,D., Gladun,A., Handstein,A.,  Jurisch,M., Kleinstück,K., Krämer,U., Knorn,M., Lange,F., Lehmann,G.,  Nghiep,D.M., Paufler,P., Pietraß,B., Quyen,N.H., Schumann,J.,Ullrich,H.-J., Wonn,H.:  Untersuchungen der elektronischen Eigenschaften, der Realstruktur und der  Supraleitung von V<sub>3</sub>Si.  In: Wiss. Berichte des Zentralinstituts für Festkörperphysik und Werkstofforschung der  Akademie der Wissenschaften (DDR) Nr.15 (1979) 53-73</p>
52	<p>Hentschel,A., Paufler,P., Jurisch,M., Kleinstück,K.:  On the microhardness of Cr<sub>3</sub>Si single crystals.  Kristall und Technik 14 (1979) K43-K44</p>
53	<p>Nghiep,D.M., Paufler,P., Krämer,U., Kleinstück,K., Quyen, N.H.:  Creep deformation of V<sub>3</sub>Si single crystals.  Journ. Materials Science 15 (1980) 1140-1146</p>
54	<p>Kleinstück,K., Krämer,U., Paufler,P., Ullrich,H.-J.:  Realstruktur und ausgewählte Eigenschaften der supraleitenden intermetallischen  Verbindung V<sub>3</sub>Si.  Wiss.Zeitschr. der TU Dresden 29 (1980)(1) 77-87</p>
55	<p>Gohar,I., Kleinstück,K., Krämer,U., Paufler,P.:  Dislocation etching in V<sub>3</sub>Si.  Kristall und Technik 15 (1980) 595-600</p>

56	<p>Nghiep,D.M., Quyen,N.H., Paufler,P.,Bertram,M., Kleinstück,K., Krämer,U., San Martin,A.:</p> <p>Influence of chemical composition on dislocation structure and its change by plastic deformation of V<sub>3</sub>Si single crystals.</p> <p>Kristall und Technik 15 (1980) 733-741</p>
57	<p>Savickij,E.M., Kleinstück,K., Paufler,P., Försterling,G., Stephan,T., Myzenkova,L.F., Petrenko, V.G.:</p> <p>Vlijanje bora na strukturu i svojstva soedinenij niobija tipa A 15.</p> <p>In: Fiziko-chimiceskij analiz sverchprovodjascich splavov.Izd.Nauka, Moskva 1979, 19-24</p>
58	<p>Paufler,P.:</p> <p>Climb mechanisms and critical temperature in off-stoichiometric V<sub>3</sub>Si.</p> <p>Kristall und Technik 15 (1980) 961-963</p>
59	<p>Nghiep,D.M., San Martin,A., Bertram,M., Kleinstück,K., Krämer,U., Paufler,P., Quyen,N.H., Berthel,K.-H.:</p> <p>Influence of deviation from stoichiometry on plastic and superconducting properties of V<sub>3</sub>Si.</p> <p>In: 5th Int.Sympos. 'High Purity Materials in Science and Technology', Dresden, May 5-9,1980. Poster Abstracts 272-275</p>
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61	<p>Bertram,M., Paufler,P., Kleinstück,K.:</p> <p>Dynamic deformation of silicon-rich V<sub>3</sub>Si single crystals at elevated temperatures.</p> <p>Crystal Research and Technology 16 (1981) 89-93</p>
62	<p>Erben,N., Paufler,P.,Löschke,K., Däbritz,S., Kleinstück,K.:</p> <p>Kossel line profiles near dislocations in GaP.</p> <p>phys.stat.sol. (a) 65 (1981) K175-K178</p>
63	<p>Erben,N., Paufler,P., Löschke,K., Däbritz,S., Kleinstück,K.:</p> <p>Profiluntersuchungen von Gitterquelleninterferenzen in der Umgebung von Versetzungen an GaP.</p> <p>In: 5.Tagung Mikrosonde 22.24.1.1981, Leipzig. Herausg. von der Physikal.Gesellschaft der DDR. S.182-184</p>
64	<p>Paufler,P., Boehnke,O., Teichert,G., Löschke,K.:</p> <p>On the influence of plastic deformation upon the mass density of GaP.</p> <p>phys.stat.sol. (a) 70 (1982) K81-K83</p>
65	<p>Löschke,K., Paufler,P.:</p> <p>On the stress-induced birefringence images of edge dislocations viewed from the side in GaP single crystals.</p> <p>Phil. Mag. A 46 (1982) 699-705</p>
66	<p>Erben,N., Paufler,P., Löschke,K., Däbritz,S., Kleinstück,K.:</p> <p>Kossel line broadening near a scratch on GaP.</p> <p>phys.stat.sol. (a) 72 (1982) K15-K18</p>

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68	<p>Teichert,G., Strohmam,R., Paufler,P., Schreiter,P.:</p> <p>On the density of synthetic glasses in the system soda melilite-gehlenite/akermanite. Crystal Research and Technology 17 (1982) 891-895</p>
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71	<p>Bertram,M., Paufler,P.:</p> <p>Stress relaxation in the intermetallic phase V<sub>3</sub>Si at elevated temperatures. Crystal Research and Technology 18 (1983) 5-11</p>
72	<p>Böhme,O., Paufler,P., Schreiter,P.:</p> <p>Mechanism of melilite formation during a sintering process. Crystal Research and Technology 18 (1983) 149-156</p>
73	<p>Boehnke,O., Nowak,E., Paufler,P., Neumann,H:</p> <p>On a slip-induced anisotropy of the electrical resistance of GaP. phys.stat.sol. (a) 75 (1983) K137-K139</p>
74	<p>San Martin,A., Kleinstück,K., Quyen,N.H., Paufler,P.:</p> <p>Influence of a direct current and a temperature gradient on the creep rate in V<sub>3</sub>Si. phys.stat.sol. (a) 80 (1983) K171-K174</p>
75	<p>Klöss,N., Paufler,P.:</p> <p>On the relation between Kossel line broadening and dislocation density. Crystal Research and Technology 19 (1984) K30 -K34</p>
76	<p>Paufler,P., Rotsch,P.:</p> <p>Pearson plot of chalcopyrite type (E11) phases. Crystal Research and Technology 19 (1984) 515-526</p>
77	<p>Paufler,P., Rotsch, P.: A geometrical interpretation of the structural parameter of chalcopyrite (E11) type compounds ABC<sub>2</sub>. Abstract in: Acta Crystallographica A40 (1984)C-251. Full paper : Zeitschr.f.Kristallographie 172 (1985)183-190</p>
78	<p>Klimm,D., Paufler,P.: On the internal friction of GaP. In: Tarcie wewnetrze i opoznienia magnetycne w ciatach stalych (pod redakcja J.M.Moronia i J.Ilczuka). Uniwersytet Slaski, Katowice 1985, 203-208</p>
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80	<p>Klimm,D., Paufler,P.: Point defects in GaP single crystals investigated by mechanical damping. Crystal Research and Technology 22 (1987) 1023-1030</p>

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83	Paufler,P.: Crystal structure analysis - An overview for non-specialists. In:'Crystallographic Databases.Information content -Software systems -Scientific applications',ed.by G.Bergerhoff,F.H.Allen.IUCr:Bonn/Cambridge/Chester 1987, 14-24
84	Jurkschat,K., Wagner,G., Paufler,P.: Slip band formation during bending of GaP wafers. Crystal Research and Technology 23 (1988) 41-49
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86	Zahn,G., Merisov,S.A., Klöß,G., Khadshaj,G.Ya., Müller,S., Gavrenko,O.A., Paufler,P.: On the change of low-temperature thermal conductivity of GaP after bending. Crystal Research and Technology 23 (1988) 509-515
87	Paufler,P.: Deformation behaviour of gallium phosphide. In: Defects in Crystals (ed. by E.Mizera). Proc. 8th Internat. School on Defects in Crystals, Szczyrk 22-29 May 1988, Singapore 1988, 169-178.
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89	Boehnke,O., Paufler,P.: On the initial stage of plastic deformation of sulphur-doped gallium phosphide. Crystal Research and Technology 24 (1989) 307-315
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91	Wagner,G., Gottschalch,V., Rhan,H., Paufler,P.: Pseudomorphic growth and nucleation of misfit dislocations in the epitaxial system (001) InP/In(1-x) Ga <sub>x</sub> As. II.Critical thickness and dislocation motion. phys.stat.sol. (a) 113 (1989) 71-81
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98	Klöß,G., Solcher,B., Paufler,P.: Einsatzmöglichkeiten lichtoptischer Methoden zur Untersuchung der Oberflächentopologie und der Realstruktur plastisch verformter AIII-BV-Verbindungen. Wiss. Zeitschr. d. Karl-Marx-Universität Leipzig, Math.-nat.wiss. Reihe 39 (1990)(4)346-352
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