

Publications Table 1963-2022

Peter Paufler	
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 5 (1963)515-516
2	Kirsten, Ch., Paufler, P., Schulze, G.E.R.: Zur plastischen Verformung intermetallischer Verbindungen. Monatsber. Deutsch.Akad.Wiss. Berlin 8 (1964)140-147
3	Paufler, P., Schulze, G.E.R.: Zwillingsbildung in MgZn ₂ . Naturwissenschaften 54 (1967)69
4	Paufler, P., Schulze, G.E.R.: Zur Zwillingsbildung in MgZn ₂ . Kristall und Technik 2 (1967)231-244
5	Paufler, P., Schulze, G.E.R.: Plastic deformation of the intermetallic compound MgZn ₂ . phys.stat.sol. 24 (1967)77-87
6	Paufler, P., Schulze, G.E.R.: Gleitsysteme intermetallischer Verbindungen. Kristall und Technik 2 (1967)K11-14
7	Paufler, P.: Kompression von Einkristallen der intermetallischen Verbindung MgZn ₂ . Monatsber.d.Deutschen Akademie der Wiss. Berlin 9 (1967)616-627
8	Paufler, P., Schulze, G.E.R.: Zum Ätzen von Versetzungen in MgZn ₂ . Kristall und Technik 3 (1968)113-124
9	Paufler, P.: Versetzungsbewegung als Elementarprozeß des Gleitvorganges in Kristallen. Wiss.Zeitschr. d.TU Dresden 17 (1968)793-799
10	Paufler, P., Schulze, G.E.R.: Wechselbeziehung zwischen Kristallstruktur und plastischen Eigenschaften. Monatsber.d.Deutschen Akademie d.Wiss. Berlin 11 (1969)426-440
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12	Hinz, D., Paufler, P., Schulze, G.E.R.: Temperature change experiments during secondary creep of the intermetallic

	compound MgZn ₂ . phys.stat.sol. 36 (1969)609-615
13	Paufler, P., Schulze, G.E.R.: Zum Einfluß der Biegung auf den Schubversuch. Exp.Tech. Physik 17 (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 12 (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 12 (1970)950-958
16	Tschapek, A., Paufler, P., Schulze, G.E.R.: Vyjavlenie dislokacionnyh setok v intermetalliceskome soedinenii MgZn ₂ pri poslojnom travlenii. Kristallografija 15 (1970)1256-1258
17	Paufler, P., Marschner, J., Schulze, G.E.R.: The mobility of grown-in dislocations in the intermetallic compound MgZn ₂ . I. Stress dependence for edge dislocations in prism slip at 390°C. phys.stat.sol. 40 (1970) 573-579
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19	Paufler, P., Marschner, J., Schulze, G.E.R.: The mobility of grown-in dislocations in the intermetallic compound MgZn ₂ . II. Stress dependence of basal slip at 390°C. phys.stat.sol.(b) 43 (1971)279-282
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21	Eichler, K., Siegel, S., Kubsch, H., Paufler, P.: Über das Verhalten einiger physikalischer Meßgrößen im Homogenitätsbereich von MgZn ₂ . Wiss. Zeitschr. d.TU Dresden 20 (1971) 399-402
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23	Paufler, P., Eichler, K., Siegel, S., Schulze, G.E.R.: Messungen zur Elektronenstruktur der intermetallischen Verbindung MgZn ₂ .

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24	<p>Paufler,P.:</p> <p>Comments on the behaviour of dislocations in intermetallic compounds at low homologous temperatures.</p> <p>phys.stat.sol.(b) 52 (1972) K65-67</p>
25	<p>Müller,Th., Krahl,H., Paufler,P., Lamsa,A., Schulze,G.E.R.:</p> <p>Gleitbanduntersuchungen während und nach Verformung der intermetallischen Verbindung MgZn₂.</p> <p>Kristall und Technik 7 (1972) 1249-1264</p>
26	<p>Kubsch,H., Paufler,P., Schulze, G.E.R.:</p> <p>The mobility of grown-in dislocations in the intermetallic compound MgZn₂. III. Dependence of basal slip on chemical composition within the homogeneity range and on temperature.</p> <p>phys.stat.sol. (b) 56 (1973) 231-234</p>
27	<p>Schulze,G.E.R., Leitner,G., Paufler,P.:</p> <p>On Laves phase families containing lanthanides and other metals.</p> <p>In: Redkozemel'nie metally, splavy i soedinenija. Izd. Nauka, Moskva 1973, S.137-142</p>
28	<p>Paufler,P.:</p> <p>Einfluß der Realstruktur auf einige Eigenschaften von Supraleitern.</p> <p>Kristall und Technik 9(1974)533-550</p>
29	<p>Kubsch, H., Paufler,P., Schulze,G.E.R.:</p> <p>The mobility of grown-in dislocations in the intermetallic compound MgZn₂ during prismatic slip.</p> <p>phys.stat.sol.(a) 25 (1974) 259-275</p>
30	<p>Kubsch,H., Paufler,P., Schulze,G.E.R.:</p> <p>On the comparison between grown-in and fresh dislocations in the intermetallic compound MgZn₂.</p> <p>phys.stat.sol. (a) 24 (1974) K53-54</p>
31	<p>Paufler,P., Schulze,G.E.R.:</p> <p>Physikalische Untersuchungen zur plastischen Verformung intermetallischer Verbindungen.</p> <p>In:Neuere Entwicklungen der Physik. Herausg.v. P.Görlich, A.Eckardt, P.Kunze. Deutscher Verlag d.Wiss. Berlin 1974, S.254-263</p>
32	<p>Eschrig,H., Feldmann;K., Försterling,G., Hennig;K., John,W., Paufler,P., Weiß,L., Ziesche,P.:</p> <p>Lattice dynamics and phase transitions in Laves-phase intermetallic compounds.</p> <p>In: The Second Conference of the Condensed Matter Division of the European Physical Society on Dielectrics and Phonons.Budapest 1974,Oct 21-25, 248410</p>
33	<p>Siegel,S.,Paufler,P., Schulze,G.E.R.:</p> <p>On grain-boundary sliding during creep of the intermetallic compound MgZn₂.</p> <p>Kristall und Technik 9 (1974) K101-102</p>

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36	<p>Eichler,K., Kubsch,H., Müller,Th., Paufler,P.: Änderung von Verformungseigenschaften der intermetallischen Verbindung MgZn₂ im Homogenitätsbereich. Kristall und Technik 11 (1976) 1185-1188</p>
37	<p>Lange,F., Berthel,K.-H., Paufler,P.: Ergebnisse komplexer Untersuchungen an V₃Si-Einkristallen zum Problem der Sprungtemperatur. In: 4.Int.Symposium 'Reinststoffe 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 CaMg₂. phys.stat.sol. (b) 79 (1977) 283-288; s.auch Preprint VIK Dubna 1976, E14-9855</p>
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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 V₃Si single crystals. II. On the defect structure of V₃Si single crystals. phys.stat.sol. (a) 44 (1977) 499-504</p>
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43	<p>Paufler,P.: A crystallographic interpretation of atomic volumes in Cr₃Si-type (A-15) phases. Kristall und Technik 13 (1978) 459-462</p>
44	<p>Paufler,P.: Deformation-mechanism maps of the intermetallic compound MgZn₂. Kristall und Technik 13 (1978)587-590</p>

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46	<p>Ullrich,H.-J., Däbritz,S., Reinhold,U., Paufler,P., Kleinstück,K., Pietraß,B.: Nachweis einer neuen Tieftemperaturphase von V₃Si 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 V₃Si single crystals studied by the Kossel technique. phys.,stat.sol. (a) 40 (1978) 323-330</p>
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55	<p>Gohar,I., Kleinstück,K., Krämer,U., Paufler,P.: Dislocation etching in V₃Si. 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 V₃Si 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>Vlijanie 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>
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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 V₃Si.</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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